MEMORANDUM OF AGREEMENT
BETWEEN THE
STATE WATER RESOURCES CONTROL BOARD
AND THE
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

Purpose

The purpose of this Memorandum of Agreement (MOA) is to outline the procedures for reporting proposed oil, gas, and geothermal field discharges and for prescribing permit requirements. These procedures are intended to provide a coordinated approach resulting in a single permit satisfying the statutory obligations of both parties to this MOA. These procedures will ensure that construction or operation of oil, gas, and geothermal injection wells and surface disposal of waste water from oil and gas and geothermal production does not cause degradation of waters of the State of California.

General

Responsibilities of the Agencies

The Department of Conservation, Division of Oil and Gas (CDOG) has the statutory responsibility to prevent, as far as possible, damage to underground and surface waters suitable for irrigation or domestic purposes resulting from the drilling, operation, maintenance, or abandonment of oil, gas, and geothermal wells (Public Resources Code Sections 3106 and 3714). In March 1983, CDOG received primacy from the Environmental Protection Agency (EPA) pursuant to the provisions of Section 1425(a) of the federal Safe Drinking Water Act that gives CDOG additional authority and responsibility to regulate Class II wells in the State. Class II wells are used to inject fluids into the subsurface that are related to oil and gas production.

The State Water Resources Control Board (SWRCB) and the nine California Regional Water Quality Control Boards (collectively RWQCB) have statutory responsibility to protect the waters of the State and to preserve all present and anticipated beneficial uses of those waters (Water Code, Division 7, Chapters 1 through 7).

Scope of Agreement

The following procedures have been formulated and adopted by the CDOG and SWRCB to: (1) simplify reporting of proposed waste discharges by the oil, gas, and geothermal operators; (2) achieve coordination of activity; and, (3) eliminate duplication of effort among the State agencies. As far as these agencies are concerned, the method of reporting proposed cil, gas, and geothermal underground injection and surface discharges will be uniform throughout the State. The attached maps show district and regional boundaries and office addresses.

The following procedures will not generally be applicable to injection wells or surface disposal methods used by operators to dispose of wastes other than produced water and fluids defined by the EPA as Class II. Other discharges (e.g., refinery wastes) must be issued waste discharge requirements or waivers through the appropriate Regional Water Quality Control Board (Water Code, Division 7, Chapter 4). Such discharges will not be subject to regulation by CDOG unless the subject disposal well is within the administrative limits of an oil, gas, or geothermal field. In such case, the CDOG must also issue a permit for the well construction (Public Resources Code Sections 3008 and 3203). The conditions of this permit should be in agreement with the waste discharge requirements for this well.

The CDOG personnel shall report all pollution problems, including spills to the ground surface or surface streams, to the appropriate Regional Board.

Procedures

Underground Injection

- Application: Oil, gas, or geothermal operators must file an application for all proposed injection projects with the 1. appropriate CDOG District office. The District office will forward a copy of the application to the appropriate Regional Board for its review and comment. Data to be included with the application shall include: (1) a chemical analysis, as appropriate, to characterize the proposed injection fluid considering the source of the fluid and/or the exposures the fluid has or will undergo before disposal; (2) a chemical analysis, as appropriate, from the proposed zone of injection considering the characteristics of the zone (to include name, location, depth and formation for well from which zone fluid was sampled); and, (3) depth, location, and injection formation of the proposed well. If the Regional Board wishes to comment prior to the issuance of a draft permit for review, comments shall be received by CDOG within 14 days.
- Review and Consultation: During the review of the application, the CDOG, the Regional Board and the State Board shall consult with one another and local agencies, as necessary, and may require the applicant to submit additional data, as necessary, to demonstrate that the proposed injection will not cause a water quality problem. Additional data required by the RWQCB, if reasonably available, shall be forwarded upon request. Data regarded as confidential by CDOG, or the applicant, will be identified and kept confidential by the RWQCB.

Permit Preparation and Issuance:

- a. CDCG will prepare a draft permit, including monitoring requirements, for the injection in accordance with statutory obligations, furnishing a copy of the draft document to the appropriate Regional Board.
- b. The Regional Board will have the opportunity to comment on the draft requirements during the public review period established pursuant to the Memorandum of Agreement (MOA) between the CDOG and the Environmental Protection Agency (EPA).
- c. The Regional Board shall determine whether or not the draft requirements provide protection to ground and surface waters having present or anticipated beneficial uses. If the draft requirements are not adequate, the Regional Board shall, within 30 days, propose conditions or revisions which would satisfy Regional Board concerns. CDOG will not issue final requirements until Regional Board concerns have been satisfied.

If no response is received from the Regional Board by the end of the public comment period, the requirements will be presumed to be acceptable to the Regional Board.

CDOG will furnish a copy of the final requirements to the Regional Board.

Surface Discharge

Application: The oil, gas, or geothermal operator shall file a Report of Waste Discharge with the appropriate Regional Board. The Regional Board will review the Report of Waste Discharge in accordance with applicable state and federal requirements, including 40 CFR Part 435. No report need be filed when such a requirement is waived by the Regional Board pursuant to Water Code Section 13269.

When a Report of Waste Discharge is not adequate in the judgment of the Regional Board, the Board may require the applicant to supply additional information as it deems necessary. If a surface disposal site is within the administrative limits of an oil, gas, or geothermal field, the Regional Board shall send a copy of the Report of Waste Discharge to the CDOG for review and comment when the report is complete. If CDOG wishes to comment, the Regional Board should receive comments within 14 days to ensure consideration of these comments during the drafting or waste discharge requirements.

Preparation and Adoption of Waste Discharge Requirements:

- a. The Regional Board will prepare draft waste discharge requirements for the disposal of production waters by surface discharge. If a surface disposal site is within the administrative limits of an oil, gas, or geothermal field, a copy of the draft document shall be furnished to the appropriate CDOG District office.
- b. The CDOG shall determine whether or not the draft requirements fulfill CDOG's statutory obligations related to water quality. If the draft requirements are not adequate, the CDOG shall, within 30 days, propose conditions to the Regional Board which would meet these statutory obligations. The Regional Board will not issue final requirements until CDOG concerns have been satisfied.

If no response is received from CDOG by the end of the public comment period, the requirements will be presumed to be acceptable to CDOG. The Regional Board will furnish a copy of the final requirements to CDOG.

Enforcement Coordination

After construction, CDOG will notify the appropriate Regional Board of any pollution problems noticed during its inspection activities. The Regional Boards will notify CDOG of any suspected violations of CDOG requirements uncovered during the Regional Boards' inspection activities.

If a determination is made by CDOG, or by the Regional Board, or the SWRCB, that an injection or surface disposal operation is violating the terms of its permit or is causing an unacceptable water quality problem, the permitting agency shall take any necessary actions to assure that compliance is achieved, or that the practice causing water pollution is abated forthwith. If necessary, the permitting agency shall order work to be done and/or order operation to be halted. Enforcement actions involving both statutory authorities should be coordinated among the parties involved in this MGA, but neither agency is precluded from taking independent enforcement action.

Modification of this Agreement

This agreement will be effective upon signature by the designated parties. The agreement may be modified upon the initiative of either party for the purpose of ensuring consistency with State or Federal statutes or regulations, or for any other purpose mutually agreed upon. Any such modifications must be in writing and must be signed by the lirector of the Department of Concernation, the State Oil and Cas adjection, and the Chairman of the SULCB.

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Memorandum of Agreement Between the State Water	Resources Control Ro-	
and the Department of Conservation Division of	Oil and Gas	1[(
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Executive Director, State Water Resources Control Board	Date	

STATE WATER RESOURCES CONTROL BOARD RESOLUTION 88- 61

APPROVAL OF AMENDMENTS TO THE MEMORANDUM OF AGREEMENT BETWEEN THE STATE WATER RESOURCES CONTROL BOARD AND THE DEPARTMENT OF CONSERVATION, DIVISION OF OIL AND GAS REGARDING CLASS II INJECTION WELLS

WHEREAS:

- The State Water Resources Control Board (State Board) and the Department
 of Conservation, Division of Oil and Gas executed a Memorandum of
 Agreement (MOA) in August 1982 that outlined the procedures for reporting
 proposed oil, gas, and geothermal field discharges and the procedures for
 prescribing permit requirements for said discharges.
- The CDOG received primacy to administer the federal Underground Injection Control Program for Class II wells in California from the U.S. Environmental Protection Agency (EPA) in March 1983.
- The EPA revised its classification of materials that are considered Class II fluids in July 1987.
- 4. The EPA revised classification requires revisions to the MOA for consistency.
- 5. Additional revisions to the MOA are necessary to clarify procedures.

THEREFORE BE IT RESOLVED:

That the State Board approves the revised MOA with CDOG and directs the Chairman and Executive Director to sign said agreement.

CERTIFICATION

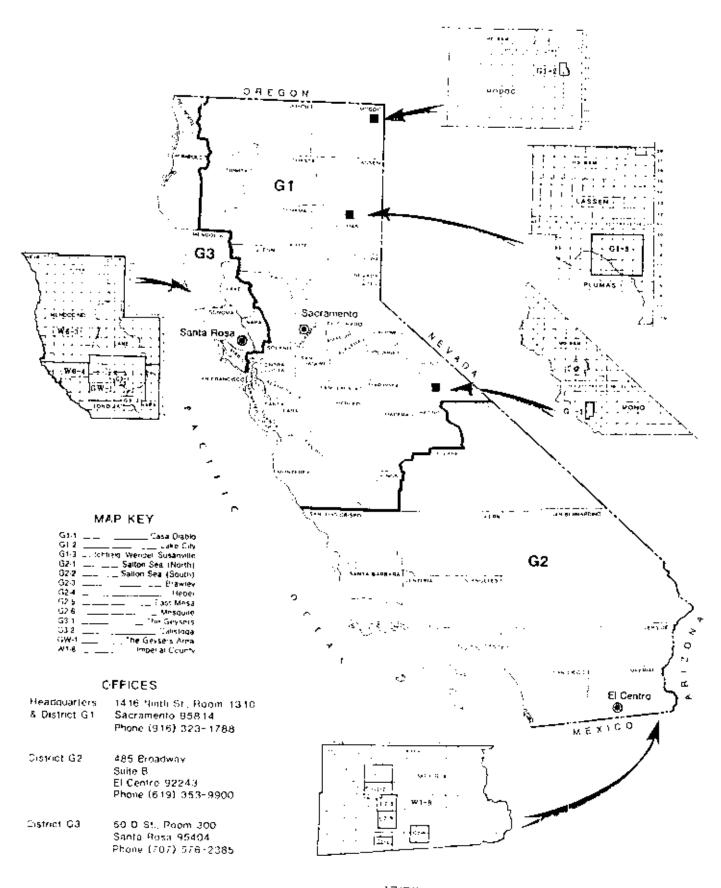
--- The undersigned, Administrative Assistant to the Board, does hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the State Water Resources Control Board held on

may 19 1988

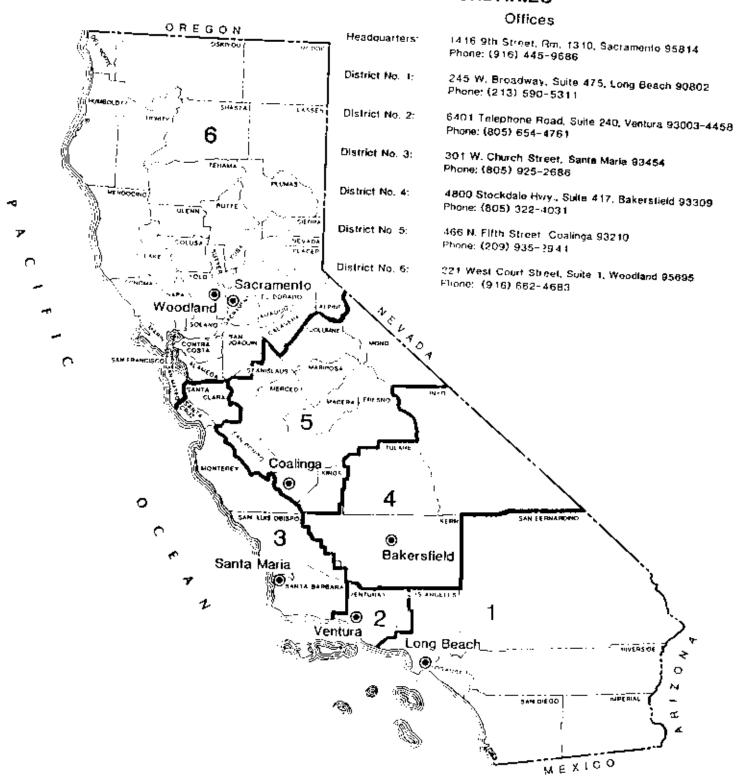
Mauleen Marche'

Administrative Assistant to the Board

GEOTHERMAL DISTRICT AND FIELD MAPS



OIL AND GAS DISTRICT BOUNDARIES



MEMORANDUM OF UNDERSTANDING BETWEEN THE DEPARTMENT OF HEALTH SERVICES

THE STATE WATER RESOURCES CONTROL BOARD THE REGIONAL WATER QUALITY CONTROL BOARDS FOR THE CLEANUP OF HAZARDOUS WASTE SITES

August 1, 1990

INTRODUCTION

This Memorandum of Understanding (MOU) consists of general and specific provisions for the cleanup of hazardous waste sites. General provisions include the scope of the agreement, which defines the parties and the type of sites to which the MOU applies; the principles, not found in law or regulation, which govern the conduct of the parties; and the methods for implementation, which explain the manner by which the parties will execute, and perform according to, this MOU.

Specific provisions, which address the protocol the parties will follow for the cleanup of hazardous waste sites, include: the method by which the lead agency and, consequently, the support agency are determined; the responsibilities of the lead and support agencies, which are defined in terms of tasks to be accomplished; procedures to be followed to ensure coordination; outputs to be produced to ensure that minimum technical requirements are satisfied; the manner by which the parties will enforce their respective authorities and settle their claims against hazardous waste site owners, operators, or dischargers; and the manner by which the parties will settle their disputes.

BACKGROUND

Based on a recommendation of the Governor's Task Force on Toxics, Waste, and Technology, Governor Deukmejian issued Executive Order D-55-86, which states, in part, that the Department of Health Services (DHS), the State Water Resources Control Board (SWRCB), and the Regional Water Quality Control Boards (RWQCB) shall enter into an MOU that specifies each agency's responsibilities in hazardous waste site cleanup, defines standards and criteria for use in Remedial Action Plan (RAP) development, and identifies a conflict resolution process to resolve interagency disputes. Subsequently, the Legislature included a provision in the Supplemental Report of the 1988 Budget Act requiring the development of this

Statutes of the State of California, embodied in the state codes, authorize certain actions or express fundamental principles which must govern the intent and goals of the MOU. Relevant code sections include, but are not limited to, the following:

- A. DHS is mandated to carry out all hazardous waste management responsibilities imposed or authorized by the Resources Conservation and Recovery Act (RCRA), the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and any regulations promulgated pursuant to these federal acts (Health and Safety Code [HSC] 25159.7).
- B. DHS shall prepare a plan for the expeditious implementation of the Hazardous Substance Cleanup Bond Act of 1984 which shall include procedures required for the development and adoption of final RAPs by DHS and RWQCB (HSC 25351.6 and 25334.5).
- C. DHS, or if appropriate, the RWQCB shall prepare or approve RAPs for all sites listed by DHS for Remedial Action (RA) (HSC 25356.1 and 25356).

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- D. DHS or the RWQCB shall review and consider any public comments, revise the draft plan if appropriate, and then issue the final RAP. (HSC 25356).
- E. DHS shall implement procedures for the abatement of an imminent and substantial endangerment (HSC 25358.3).
- F. DHS is authorized to spend funds from the Hazardous Substance Account or the Hazardous Substance Cleanup Fund for removal or remedial actions on any site included on the list established pursuant to HSC 25356 only if DHS enters into an enforceable agreement or issues an order and determines in writing that the potential responsible party(s) is not in compliance with the order or agreement (HSC 25355.5)
- G. The SWRCB and each RWQCB shall be the principal state agencies with primary responsibility for the coordination and control of water quality (Water Code (WC) 13001).
- H. Each RWQCB shall obtain coordinated action in water quality control, including the prevention and abatement of water pollution and nuisance (WC 13225).

Under direction from the Governor, DHS signed a Defense (Department)-State Memorandum of Agreement (DSMOA) in May 1990, which allows for funding state oversight of remedial actions at military facilities in California. Although both DHS and the State and Regional Boards are eligible to receive payment for their oversight costs, federal funding is limited and qualified. Separate agreements between DHS regional offices and the RWQCBs for specific sites will be required in order to allocate available funding. This MOU provides a basis for DHS and the Boards to agree on funding and performance at military facilities.

DHS, also, has recently signed an Agreement in Principle (AIP) with the U.S. Department of Energy (DOE). The AIP will provide reimbursement of state costs for oversight of specified environmental compliance activities at DOE facilities. An Interagency Agreement between the DHS Environmental Health Division and the SWRCB will specify water quality oversight tasks which the State and Regional Boards will perform.

THE DHS AND THE SWRCB AND THE RWQCBS AGREE TO THE FOLLOWING:

I. SCOPE

This MOU is effective immediately and is binding upon DHS, the SWRCB, and the nine RWQCBs. It covers the cleanup of hazardous substances at all sites or facilities where such substances must be cleaned up in order to protect public health or the environment. The cleanup of other substances is not covered under this agreement. Sites include, but are not limited to, sites listed on the National Priorities List (NPL) and in the DHS Site Mitigation annual work plan. This MOU shall be used to determine the relationship of the parties and to guide the site-specific communications between them on activities at the sites. The provisions of this MOU are applicable both at sites where a state agency is the lead agency as well as at sites where the U.S. Environmental Protection Agency, Region 9 (EPA) is the lead agency. In the latter case, the provisions of this MOU shall be utilized to determine which state agency will act as the liaison between the State and EPA and how the state agencies will coordinate their review and comment on site-specific documents submitted by EPA.

Contracts and agreements also exist which involve DHS, SWRCB, RWQCB, and local agencies in the cleanup of leaking underground storage tanks. There are also other specific agreements between state and/or federal agencies. This MOU is not intended to conflict with the provisions of those contracts and agreements nor is it intended to add procedure and requirements which the agencies agree are not necessary for the satisfactory cleanup of leaking underground storage tanks.

A Memorandum of Agreement (MOA) exists between DHS and the SWRCB regarding coordination of activities at facilities subject to regulation pursuant to RCRA. For coordination of cleanup activities at these facilities, the agencies should refer to both this MOU and the RCRA MOA.

II. PRINCIPLES

The parties recognize that certain principles, not found in law or regulation, should govern their conduct. One principle is that the participation of both agencies acting within their respective authorities, jurisdiction, and expertise, whether acting as lead agency or support agency, is essential for the successful cleanup of hazardous waste sites and is in the best interest of the State.

In the cleanup of hazardous waste sites, mutual trust, confidence, cooperation, and communication between the parties are to be expected. It is a basic aim of this MOU and the policy of the parties that duplication of effort in the site cleanup program be avoided. Public health and the environment are best served by each party minimizing duplication of effort on the greatest number of sites possible. Both parties do, however, recognize that there are certain situations where one or the other will have the necessary technical resources, expertise, or authority. To the extent staff and other resources allow, and in a manner set forth in this MOU, the parties agree to assist each other. This cooperative approach is in the best interest of public health and the environment.

Finally, the parties recognize that cleanup of hazardous waste sites throughout California can best be achieved if the state agencies act with consistency and predictability. Both the public and the responsible parties expect that state government will apply rational methodologies and standards to site cleanup. Compliance with the terms of this MOU will eliminate or significantly reduce any apparent inconsistencies between the agencies. Consistency will be achieved by agreement on minimum technical and procedural requirements, coordination of enforcement actions, close and constant communication between project staff, and exchange of Applicable or Relevant and Appropriate Requirements (ARARs) or state standards for site cleanup. If either agency is developing such standards, that agency will involve the other agency in the development at an early stage so that consistency in technical issues can be maintained.

III. IMPLEMENTATION

In order to facilitate implementation of this MOU, the parties will establish an "MOU Technical Advisory Committee" (TAC) within four months of the effective date of this MOU. The TAC will serve to provide guidance and advice to management and staff on technical issues that develop during performance under this agreement and will assist, if called upon, in the settlement of technical disputes. The TAC will also evaluate the achievement of the goals of the Executive Order and the compliance principles of this MOU and will provide an annual report to management. This report will be submitted by March 1 of each year, will cover the prior calendar year and will, if appropriate, include recommendations for modifications to this MOU to improve attainment of the principles of the parties. The TAC will consist of a total of six members, each at a level equivalent to Supervising Engineer, Supervising Hazardous Materials Specialist, or above, as follows: one member from DHS Headquarters, two members from DHS Regional Sections, one member from SWRCB, and two members from RWQCBs. Annually the TAC will elect one of its members as chairman who will be responsible for coordinating the activities of the TAC.

IV. LEAD AGENCY DETERMINATION

DHS Regional Offices and RWQCBs will meet to determine the lead agency as appropriate under this section

- A. The agency which first discovers a potential or actual hazardous waste site shall serve as the lead agency until the criteria of this MOU are utilized to determine a lead agency.
- B. Within 180 days after the effective date of this MOU, the agencies shall determine the lead and support agencies for each hazardous waste site on which either agency plans to work in Fiscal Year 1990-91. Each Regional Board Executive Officer (EO) and Department Regional Administrator (RA) shall compile an inventory of hazardous waste sites within their respective regions and shall determine whether resources are or will be available to perform the tasks required by this MOU. The EO and RA shall then agree on which agency shall be lead and which shall be support for sites of common jurisdiction. Sites for which neither agency has resources shall be listed in a holding pool until resources become available or priorities change. This process shall be repeated for each subsequent fiscal year as necessary to implement this MOU. The designation of lead agency may be changed at any time by agreement of the agencies.
- C. The determination of a lead agency shall be made by considering the factors listed in Paragraph D of this section. It is probable that more than one factor may be applicable to a site. In these situations, more weight should be given to those factors listed first.
- D. The lead agency as between DHS and SWRCB/RWQCB, for the cleanup of hazardous waste sites shall be determined using the following guidance:
 - DHS should be the lead agency at sites where there is no responsible party.
 - 2. If the site does not meet the criteria in number 1 above, then the following conditions apply:
 - a. If after reasonable enforcement actions are implemented, the responsible party is unwilling or is financially unable to perform cleanup and the expenditure of state Superfund monies is deemed appropriate to perform actual site cleanup, then DHS should be the lead agency.
 - b. If the site is on the NPL, then DHS should be the lead agency.
 - c. If one agency has a significantly longer history of involvement working to clean up the site, then it should be the lead agency.
 - d. If the source of the contamination is a leaking underground storage tank, then the RWQCB or a local agency, upon delegation by a Regional Board, or by contracting with the state Board, should be the lead agency.
 - If the contamination is primarily airborne, then DHS should be the lead agency in consultation with the Air Resources Board and the appropriate Air Quality Management District.
 - If the site is primarily a result of agricultural activities, then the RWQCB should be the lead agency.
 - g. If the source of the contamination is an inactive mine, then the RWQCB should be the lead agency.
 - h. If the contamination is confined to soils, then DHS should be the lead agency.
 - If the contamination is primarily impacting surface waters, then the RWQCB should be the lead agency.

- j If the source of the contamination is a RCRA regulated disposal facility, then DHS should be the lead.
- k. If the source of the contamination is a non-RCRA surface impoundment, then the RWQCB should be the lead agency.
- If the source of the contamination is a landfill which would not normally be regulated by DHS, then the RWQCB should be the lead agency in consultation with the California Integrated Waste Management Board.
- E. Notwithstanding a determination under Paragraph D of this section, DHS Regional Offices and the RWQCB may otherwise agree which agency shall be lead agency at a particular site. Specific examples of situations where this provision may be used are where multiple sources are contributing to the same problem or where resource availability affects the determination; however, other situations may warrant a decision using this provision.
- F. The agency determined to be the lead agency for purposes of site cleanup under this MOU is not necessarily the lead agency for implementing programs or tasks that are applicable to the site but not within its authority or jurisdiction. Where the support agency happens to have sole or primary responsibility or exclusive capability for a program or task related to cleanup activities, then that agency shall perform those required tasks pursuant to its exclusive lead authority in a manner consistent with its role under this MOU. Examples of such tasks and programs include, but are not limited to, issuance of a National Pollutant Discharge Elimination System permit, approval of a transportation plan, regulation of nonhazardous wastes, enforcement of the Toxic Pits Control Act, approval of a solid waste water quality assessment test report, performance of a public health evaluation, or the imposition of restrictions for land use. The support agency will coordinate all activities described in this paragraph with the lead agency.
- G. Any dispute regarding the determination of the lead agency shall be resolved pursuant to Section VII.

V. RESPONSIBILITIES OF LEAD AND SUPPORT AGENCIES

A. Coordination Procedures

1. General

- a. The lead agency is responsible for coordinating and communicating with the support agency in a timely manner. This includes, but is not limited to, providing schedules, technical reports, correspondence, and enforcement papers, soliciting and responding to comment, analysis, evaluation, and advice; and meeting, conferring and discussing the project.
- b. The support agency is responsible for coordinating and communicating with the lead agency in a timely manner. This includes, but is not limited to, providing notification that setected sites are of particular interest; providing comment, analysis, evaluation, and advice, especially that within the unique expertise of the agency; and meeting, conferring, and discussing the project.
- c. EPA will be the lead agency for many sites listed on the NPL. The State will designate a state lead agency using the criteria specified in Section IV. The agency so designated has the responsibility of maintaining communications between the State and EPA. This agency does not have responsibility for ensuring completion of the tasks listed in Section V.B. However, this agency shall ensure that comments from all state agencies.



are transmitted to EPA and shall coordinate the resolution of any disputes so that the State presents only one position to EPA.

d. Neither agency will significantly change its procedures for the cleanup of hazardous substances without notification to and review and comment from the other agency. Examples of such changes include technical guidance documents and applicable regulations.

Specific

- Each agency will coordinate with the other agencies on its enforcement activities as specified in Section VI.
- b. The lead agency shall provide to the support agency any California Environmental Quality Act (CEQA) documents at least ten working days prior to sending these documents to the state clearinghouse. If the support agency decides to comment, it shall do so within ten working days after receipt, or during the formal review process as mandated by CEQA.
- c. The lead agency shall contact the support agency to identify ARARs for each specific site at the following times;
 - (1) During the scoping phase of the remedial investigation/ feasibility study (RI/FS) or equivalent,
 - (2) During the site characterization phase of the RI or equivalent.
 - (3) During the development of alternatives in the FS or equivalent.
 - (4) During Remedial Design (RD).

The support agency shall respond within 30 calendar days after a request for ARARs. The lead agency shall apply the ARARs identified by the support agency or it shall provide to the support agency, at least 20 calendar days prior to informing the responsible party or the public, a written memorandum which identifies ARARs that will not be applied and the reasons for such decisions.

For those sites where EPA is the lead agency, the state lead agency as determined according to this MOU, shall notify EPA of all ARARs identified by the parties to this agreement. However, the party identifying the ARARs shall be responsible for defending the application of its ARARs should EPA elect not to apply them.

- d. The lead agency shall prepare or have the responsible party(ies) prepare the draft RAP or equivalent cleanup plan as an internal working draft document and provide a copy to the support agency at least 20 working days prior to general public distribution. If the support agency decides to comment, it will do so within 20 working days after receipt. Unless a shorter period of time is mutually agreed upon, any dispute shall be resolved by Section VII.
- e. The lead agency shall provide all other technical documents, as specified in Section V.B.9., and not otherwise referred to above, within a time sufficient for review and comment. In all cases, the lead agency shall provide at least 15 working days for review and response by a support agency unless a shorter period of time is mutually agreed upon. The support agency shall respond, as appropriate, in a timely manner.



B. Tasks

- 1. For sites listed on the NPL or in the DHS Site Mitigation annual work plan:
 - a. The lead agency shall be responsible for ensuring completion of the following tasks:
 - (1) Identifying imminent threats and initiate removal actions (if necessary).
 - (2) Identifying responsible parties.
 - (3) Issuing an order or entering into an enforceable agreement (if necessary).
 - (4) Coordinating enforcement actions (see Enforcement and Settlement Section VI).
 - (5) Establishing and maintaining an administrative record.
 - (6) Providing project oversight:
 - Assigning a remedial project manager.
 - (ii) Maintaining a field presence including, if necessary, providing an on-scene coordinator.
 - (iii) Preparing and maintaining site schedules and workplans.
 - (iv) Reviewing technical documents listed in Section 9 of this paragraph for comment or approval.
 - (v) Managing applicable contracts.
 - (vi) Accounting for project costs.
 - (7) Preparing and/or reviewing RI/FS which includes:
 - Site characterization.
 - (ii) RA alternatives.
 - (iii) Risk assessment,
 - (8) Requiring and approving the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Plan (SAP).
 - (9) Providing technical documents to the support agency, including, but not limited to, as appropriate:
 - (i) Site schedule.
 - (ii) RI/FS workplan.
 - (iii) RI report.
 - (iv) FS report.

- (v) Health and Safety Plan.
- (vi) QAPP.
- (vii) SAP.
- (viii) Community relations plan.
- (ix) RAP.
- (z) CEQA documents.
- (xi) Transportation plan,
- (10) Maintaining community relations:
 - Developing and implementing a community relations program.
 - (ii) Managing any technical assistance grants.
- (11) Compiling ARARs.
- (12) Conducting a complete Public Health Evaluation (PHE) (as appropriate).
- (13) Preparing and approving the RAP.
- (14) Preparing and/or approving RD/RA
- (15) Complying with CEQA.
- (16) Recovering cost (if necessary).
- (17) Overseeing operations and maintenance, including long-term monitoring (if necessary).
- (18) Restricting land use (as appropriate).
- b. The support agency shall be responsible for reviewing and, if appropriate, providing comments on the documents listed in Section V.B.I.a.(9) within the time periods determined utilizing Section V.A.2, or the lead agency may assume that the support agency does not have any comments. Additionally, the support agency shall always respond to a request for ARARs, and shall perform tasks as appropriate according to its exclusive authority or capability.
- 2. For sites not listed on the NPL nor on the DHS Site Mitigation annual work plan:
 - a. The lead agency shall be responsible for ensuring completion of the following tasks:
 - (1) Conducting removal actions (if necessary).
 - (2) Identifying a responsible party.
 - Coordinating enforcement action (see Enforcement and Settlement, Section VI).

- (4) Establishing and maintaining an administrative record.
- Providing project oversight.
 - Assigning a project manager.
 - (ii) Preparing and maintaining site schedules and workplans.
 - (iii) Reviewing technical documents.
 - (iv) Maintaining a field presence, as necessary.
- (6) Preparing or approving an Employee Health and Safety Plan.
- (7) Characterizing the nature and extent of the problem.
- (8) Requiring and approving quality assurance and sampling plans.
- Evaluating cleanup alternatives.
- (10) Complying with CEQA.
- (11) Conducting community relations.
- (12) Preparing or approving the cleanup plan.
- (13) Overseeing cleanup.
- (14) Providing technical reports to the support agency.
- b. The support agency shall be responsible for reviewing and, if appropriate, providing written comments on the documents submitted pursuant to Section V.B.2.a within the time periods determined utilizing Section V.A.2. or the lead agency may assume that the support agency does not have any comments. Additionally, the support agency shall always respond to a request for ARARs, and shall perform tasks as appropriate according to its exclusive authority or capability.

C. Technical Requirements

- The following outputs or items, in whole or in part, are required to be addressed for the completion of RAs at hazardous waste sites:
 - a. For sites Listed on the NPL or in the DHS Site Mitigation annual work plan:
 - (1) RAs (if needed).
 - Identification of responsible parties.
 - (3) Enforceable agreement or order.
 - (4) Cooperative agreement.
 - Administrative record.

b.

(6)	Remedial project manager.					
(7)	On-scene coordinator.					
(8)	Site schedule.					
(9)) Workplans.					
(10)	Comr	nunity relations plan.				
(11)	I) QAPP.					
(12)	SAP.	·				
(13)	RI.					
	(i)	Site history.				
	(ii)	Identification of sources.				
	(iii)	Site characterization.				
(14)	ARAJ	Rs.				
(15)	F\$.					
(16)	Record	f of decision (ROD)/RAP				
(17)	RD					
(18)	RA,					
(19)	PHE.					
(20)	20) CEQA document					
(21)	21) Health and Safety Plan.					
(22)	Transpo	ortation plan (if needed).				
For s	ites not	listed on the NPL nor in the DHS Site Mitigation annual work plan:				
(1) 5						
(2) I	dentific.	ation of responsible parties.				
(3) A	dminis	trative record.				
(4) R	emedia	I project manager,				
5) S	ite sche	dulc,				
6) u	/odenia	n				

- (7) Quality assurance plan.
- (8) Sampling and analysis plan.
- (9) RAP or cleanup plan.
 - (i) Site history.
 - (ii) Identification of sources.
 - (iii) Site characterization.
 - (iv) Feasible remedial alternative.
 - (v) RD.
- (10) Community relations plan,
- (11) RA.
- (12) Employee Health and Safety Plan.
- (13) Community Health and Safety Plan (if needed).
- (14) CEQA compliance.
- (15) Transportation plan (if needed).
- The agencies shall define these requirements, as appropriate, according to 40 CFR 300 et seq., and HSC 25350 et seq., in addition to the guidance documents listed in Attachment A.

VI. ENFORCEMENT AND SETTLEMENT

- A. For purposes of this MOU, enforcement means the action by an agency to compel performance by a responsible party, such as the issuance of an order or the filing of a complaint. Settlement means the resolution by agreement with the responsible party, in whole or in part, of matters in dispute, such as the performance required for satisfactory remedial action, claims for money, or liability.
- B. The lead agency will communicate with the other agencies regarding its enforcement and settlement activities for hazardous waste sites. Communication means, for example, notification at least 10 working days in advance, if feasible, of a decision to issue an order or to initiate settlement negotiations; provision of enforcement or settlement documents for information or for review and comment; and, to the extent feasible, modification of a proposed order or agreement to incorporate the other agency's concerns. Staffs will meet and confer, as necessary, during drafting of enforcement and settlement documents.
- C. Unnecessary or redundant enforcement documents are to be avoided. Neither agency will take enforcement actions that are not compatible or complementary to the enforcement actions of the other agencies. To the extent possible, consistent with preserving their respective authority or mandates, each agency will coordinate time schedules and demands so that responsible parties can respond to consistent direction.



- D. To the extent practicable, each agency will assist the other in enforcement. Information that may be used to determine compliance or noncompliance will be transmitted to the enforcing agency as soon as possible but no later than 15 working days after being obtained and formalized.
- E. Upon a determination of noncompliance with an administrative order and a decision to pursue litigation (i.e., referral to the Attorney General or filing a complaint), the responsible agency will notify the other agencies at least seven working days prior to referring a matter to the Attorney General. Each agency will coordinate its legal actions to the extent practicable so that the Attorney General may bring joined or consolidated causes of action.
- F. Negotiations may be commenced with a responsible party to enter into an enforceable agreement either to take cleanup action without the issuance of an order, to resolve noncompliance with an order that has been issued, or to resolve causes of action alleged in complaint. All decisions to negotiate with a responsible party will be coordinated between the agencies.
- G. The lead agency will act as lead spokesperson for the negotiating team. The lead spokesperson will be responsible only for initiating and maintaining communications with the responsible parties, for coordinating the State's position, and for directing the agenda for seulement. The negotiating team will be composed of representatives from each agency with authority, with legitimate claims, and electing to participate. For purposes of dispute resolution in Federal Facility Agreements (FFAs), the lead agency and support agency may agree to designate which state agency will cast the State's vote.

Each agency is responsible for presenting its respective position. If an agency fails to attend negotiations or to meet other negotiating responsibilities without good cause, or without notifying the other participating agency in advance, then that agency must either defer to negotiating participants on issues discussed at the missed negotiation or withdraw from further negotiations relative to that particular site.

However, where practicable, in order to avoid unnecessary expenditure of resources for conducting negotiations, the support agency, after prior notification to and agreement by the lead agency, may elect to withdraw from or not participate in active negotiations, either temporarily or permanently. In such cases, the support agency is responsible for providing to the lead agency the details of their specific concerns regarding seulement. If this information is not provided, the lead agency will negotiate in the best interest of the State, but will have no responsibility to negotiate on behalf of the support agency issues for which the lead agency has neither authority nor assistance.

When the support agency does not attend negotiations, the lead agency is responsible for obtaining for the support agency terms of seatlement identical to its own, provided that: the support agency provides the necessary information and assistance to the lead agency pursuant to this section; and the terms requested by the support agency are similar in scope and documentation to that of the lead agency ("identical terms" means similar percentage of settlement request or similar conditions as opposed to a dollar-for-dollar separation). Moreover, the lead agency is responsible for notifying the support agency if new issues arise which may be within the sole authority of the support agency, in order that the support agency has the opportunity to participate in those portions of the negotiations addressing such issues. The negotiation of FFAs with the federal government is an example of when this situation may occur. In this example, the lead agency will not settle for recovery of their costs without including those similarly justifiable costs of the support agency.

H. All communications with a responsible party related to negotiations will be coordinated by the lead spokesperson. Documents related to negotiations will be shared freely between the agencies and such documents which are confidential will be maintained in a manner consistent with any applicable requirements for confidentiality.

- I. Each agency will support the other during negotiations. A single position is essential, and the agency advocating the most conservative or stringent position will be responsible for defending its position. A disagreeing agency will remain silent or request a recess. All agencies involved should meet prior to each negotiating session in order to minimize disagreements.
- J. Before agreement or settlement with responsible parties can be reached, the concerns and claims of each agency regarding the issues to be agreed upon or settled will be resolved. An agency will not settle independently with responsible parties without advance concurrence by the other participating parties. Disputes shall be settled pursuant to the procedure described in Section VII.
- K. Settlement with a responsible party will include provision for payment by the responsible party for all oversight costs incurred or to be incurred by any negotiating agency that will participate in the RA procedure.

VII. DISPUTE RESOLUTION

- A. Disputes shall be resolved, if at all possible, through informal discussion, negotiation, and consensus. Such informal discussions may, if necessary, include staff at all levels, including those listed in Section VII.B.I. If the dispute cannot be resolved informally within a reasonable length of time or if continuing nonresolution of the dispute would place either party at a disadvantage, then either party may notify the other party that such a dispute exists and exercise the formal dispute resolution procedure described below.
- B. Disputes shall be resolved formally using the following procedure:
 - 1. Jointly the staffs of the agencies involved in the dispute shall prepare a memorandum describing the dispute. The lead agency shall provide copies to the appropriate RA of the Toxic Substances Control Program (TSCP) and to the Executive Officer (EO) of the appropriate Regional Board. The memorandum shall address and explain all sides to the dispute, shall state the consequences of each recommended decision and shall provide a date by which a decision is needed. The lead staff person for each agency shall co-sign the memorandum prior to submitting it to management.
 - If the DHS RA and the RWQCB EO cannot resolve the dispute within the time requested in
 the memorandum, then they will jointly present written notification of the dispute to both the
 Executive Director (ED) of the SWRCB and the Deputy Director of the TSCP.
 - 3. If the SWRCB ED and the TSCP Deputy Director cannot resolve the dispute within 30 calendar days from the day the memorandum is delivered to them, then the memorandum shall be delivered to the SWRCB and the Director of DHS. If within 30 calendar days they cannot resolve the dispute, the memorandum shall be delivered to the Secretary of Environmental Affairs and to the Secretary of Health and Welfare. If within 30 calendar days they cannot resolve the dispute, the memorandum shall be delivered to the Governor.
 - 4. When the dispute is resolved, a written decision shall be provided to all parties to this MOU.
- C. During such time that any formal or informal dispute is not yet resolved, neither agency will comment adversely in public. The time required to resolve a dispute shall not be used to unnecessarily or unfairly delay action by either agency.

John/J. Kearns

Acting Deputy Director

Toxic Substances Control Program Department of Health Services State of California

James W. Baetge Executive Director

State Water Resources Control Board State of California

Date: <u>7-31-90</u>

ATTACHMENT A

APPLICABLE LAWS, REGULATIONS, AND GUIDANCE DOCUMENTS

- California Water Code.
- B. California Health and Safety Code.
- C. Titles 22/23 (Subchapter 15) California Code of Regulations.
- D. California Environmental Quality Act.
- F. National Oil and Hazardous Substances Contingency Plan.
- G. Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA.
- H. Superfund Public Health Evaluation Manual.
- Superfund Exposure Assessment Manual,
- Methodology for Characterization of Uncertainty in Exposure Assessments.
- K. RCRA Ground-Water Monitoring Technical Enforcement Guidance Document.
- The Endangerment Assessment Handbook.
- M. Superfund Remedial Design and Remedial Action Guidance.
- Standard Operation Safety Guides (OSWER).
- Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities (DHS [NIOSH]).
- P. Data Quality Objectives for Remedial Response Activities (OSWER).
- Q. Samplers and Sampling Procedures for Hazardous Waste Sources (EPA).
- A Compendium of Superfund Field Operations Methods.
- Handbook on Remedial Action on Waste Disposal Sites.
- T. Uncontrolled Hazardous Waste Site Ranking System—A User's Manual.
- U. Community Relations in Superfund: A Handbook (EPA) 03/86.
- The California Site Mitigation Decision Tree Manual.
- W. Small Site Cleanup Guidance Document (to be completed).
- Leaking Underground Fuel Tank Manual.

ATTACHMENT B

ACRONYMS USED IN THE MEMORANDUM OF UNDERSTANDING

1.	AIP	Agreement In Principle	
2.	ARAR\$	Applicable or Relevant and Appropriate Requirements	
3.	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	
4.	CEQA	California Environmental Quality Act	
5.	DHS	Department of Health Services	
6.	DOE	U.S. Department of Energy	
7.	DSMOA	Defense (Department)-State Memorandum of Agreement	
8.	ED	Executive Director	
9.	EO	Executive Officer	
10.	EPA	U.S. Environmental Protection Agency, Region 9	
11.	FFA	Federal Facility Agreement	
12.	FS	Feasibility Study	
13.	HSC	Health and Safety Code	
14.	MOA	Memorandum of Agreement	
15	MOU	Memorandum of Understanding	
16.	NPL	National Priorities List	
17	PHE	Public Health Evaluation	
81	QAPP	Quality Assurance Project Plan	
19.	RA	Remedial Action or Regional Administrator	
20.	RAP	Remedial Action Plan (State equivalent to ROD)	
21,	RCRA	Resource Conservation and Recovery Act	
22.	RD	Remodial Design	
23.	R[Remedial Investigation	
24.	ROD	Record of Decision (Federal equivalent to RAP)	
25.	RWQCB	Regional Water Quality Control Board -	

26.	SAP	Sampling and Analysis Plan
27	SWRCB	State Water Resources Control Board
28.	TAC	Technical Advisory Committee
29.	TSCP	Toxic Substances Control Program
30.	WC	Water Code

MEMORANOUM OF UNDERSTANDING BETHEEN THE SOIL CONSERVATION SERVICE U.S. DEPARTMENT OF AGRICULTURE AND THE STATE WATER RESOURCES CONTROL BOARD FOR

PLANNING AND TECHNICAL ASSISTANCE RELATED TO WATER QUALITY POLICIES AND ACTIVITIES

PURPOSE:

The purpose of this Memorandum of Understanding (MOU) is to formalize cooperation between U.S. Department of Agriculture (USDA), Soil Conservation Service (SCS) and the State Water Resources Control Board (State Board), and to develop appropriate guidelines and procedures related to water quality activities. The SCS and State Board share a common interest in maintaining, protecting, and improving the quality of waters (surface and ground water) of the State.

Through this MOU, the State Board seeks to utilize the personnel and expertise of SCS to increase the assistance available to California in the development and implementation of water quality programs and projects. Coordination and cooperation between SCS and State Board will reduce unnecessary duplication of effort, accelerate the implementation of best management practices (BMPs) and other nonpoint source (NPS) measures, and increase overall program effectiveness.

II. <u>AUTHORITIES:</u>

This MOU is entered into under the authorities of the Soil Conservation and Domestic Allotment Act (16 U.S.C. Section 590-f), as amended, Division 7 of the California Water Code (Porter-Cologne Act), and the authorities of the Clean Water Act (CWA), [Section 304(1), 314, 319, and 320], as amended.

Nothing in this MOU alters the statutory or regulatory authority of SCS or the State Board. This MOU is intended to strengthen those statutory requirements through the development of cooperative federal-State efforts.

III. BACKGROUND:

USDA Regulation 9500-7, Nonpoint Source Water Quality Policy, December 5, 1986 and USDA Regulation 9500-8, Policy for Groundwater Quality, November 9, 1987 established policy for integrating surface and ground water quality protection and improvement into the appropriate programs and activities.

The report to the Congress by the Secretary of Agriculture in the <u>National Program for Conservation of Soil and Water: The 1988-90 Update gives top priority to the solution of soil erosion on agricultural land. The second priority is the "protection of the quality of surface and ground water from harmful contamination from nonpoint sources".</u>

SCS, a technical agency of the USDA and, in cooperation with Resource Conservation Districts in California, provides technical assistance for implementation of water quality programs. SCS has a number of field offices which can provide technical assistance to most of the counties within California.

The Porter-Cologne Act, administered by the State Board, establishes a comprehensive program for the protection of water quality and the beneficial uses of the waters of the State. The Porter-Cologne Act is intended to provide a "statewide program for water quality control".

Section 319 of the CWA, as amended, requires the State to develop a NPS management program for controlling NPS pollution. The State Board has developed a State NPS Management Program which lists the SCS as providing technical and financial assistance to improve and protect land and water resources.

The State Board and SCS recognize the need to improve, conserve, and protect the quality of surface and ground water by undertaking efforts to avoid harmful NPS contamination and, thereby maintain the quality and quantity of water available for safe drinking supplies, irrigated agriculture, fisheries, and other beneficial uses. A coordinated effort is necessary to address these issues.

IV. SCS AGREES TO:

- A. Integrate water quality concepts and management techniques into all programs and activities to address surface and ground water NPS pollution.
- B. Implement internal policies that elevate the importance of water quality in all SCS programs and assure consistency of SCS actions with the State NPS Management Program.
- C. Provide technical assistance to the State Board in the support and development of BMPs appropriate for the control and reduction of NPS pollution.
- D. Encourage the targeting of water resource projects to hydrologic units that are tributary to the high priority waterbodies identified in the State Board's Clean Water Strategy and Water Quality Assessment Process.
- E. Encourage the California Association of Resource Conservation Districts (CARCDs) and their more than 100 member districts to cooperate with appropriate State and local agencies in addressing the water quality priorities of federal agencies and the State Board.
- F. Provide technical assistance through RCDs to landowners in dealing with NPS pollution problems.

V. STATE BOARD AGREES TO:

- A. Use the SCS Field Office Technical Guide as a resource reference in the development and implementation of BMPs.
- B. Assist the SCS in the selection of priority hydrologic units for the implementation of water resource projects.
- C. Jointly develop with the SCS and CARCD demonstration projects addressing water quality concerns.
- D. Encourage the voluntary or cooperative approach as the first step in the development and implementation of solutions to the NPS problem.
- E. Consider the development of a statewide water quality policy for reducing NPS pollution of surface and ground waters and achieving water quality standards by working with other agencies.
- F. Coordinate the activities of the California Regional Water Quality Control Boards with those activities being proposed and implemented by the SCS.
- Define the goals and objectives of the NPS Interagency Advisory Committee and conduct regular meetings.

VI. SCS AND STATE BOARD MUTUALLY AGREE TO:

- A. Develop a process for BMP selection and implementation to reduce or prevent agricultural pollution in priority waterbodies.
- B. Continue to upgrade and update the SCS's Field Office Technical Guide and BMPs as new technology is developed.
- C. Develop agricultural BMPs for NPS pollution control with input from the NPS Interagency Advisory Committee, and others.
- D. Develop implementation priorities and policies for NPS pollution activities.
- E. Provide guidance and technical assistance to implementation agencies.
- F. Encourage participation of other federal, State, and local agencies in the control of NPS pollution.

VII. OTHER CONDITIONS OF THE MOU:

A. This is not a fiscal or a funds obligation document. Endeavors involving reimbursements or transfer of funds between SCS and the State Board for the purposes of this Agreement will be in accordance with USDA/SCS and State Board financial procedures. Any reimbursement agreement will be contingent upon the availability of funds and upon limitations of appropriations authorized by law.

- B. This MOU complies with the nondiscrimination provisions of Title VI of the Civil Rights Act of 1964 and other nondiscrimination statutes, namely, Section 504, Title IX and the Age Discrimination Act of 1975 provides that no person in the United States shall, on the grounds of race, color, national origin, age, sex, religion, or handicap be excluded from participation in, or be denied the benefits of, or be otherwise subjected to discrimination under any program or activity receiving federal or State assistance.
- C. This MOU becomes effective on the date of signature by both parties and shall continue indefinitely. It may be modified at any time upon the mutual consent of the parties and it may be terminated by either party giving a 30-day advance written notice to the other party.

W. Don Maughair

w. Don maugnap Chairman

State Water Resources

Control Board Sacramento, California

Date: 4231 1990

Pearlie S. Reed

State Conservationist Soil Conservation Service

Davis, California

Gates

MEMORANDUM OF UNDERSTANDING

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ENVIRONMENTAL AFFAIRS AGENCY AIR RESOURCES BOARD STATE WATER RESOURCES CONTROL BOARD CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

I. INTRODUCTION

This Memorandum of Understanding (MOU) expresses the desire of the Air Resources Board (ARB), State Water Resources Control Board (SWRCB), California Integrated Waste Management Board (CIWMB), and Environmental Affairs Agency (Agency) to enhance program coordination. We undertake this task to minimize risks to public health and the environment, eliminate duplication of effort, and provide regulatory consistency.

The MOU consists of general and specific provisions. General provisions include (A) the scope of the agreement, which defines the parties and issues to which the MOU applies, (B) the principles which will govern the conduct of the parties and, (C) the existing statutory framework.

Specific provisions, which address the protocols the parties will follow, include (A) the responsibilities of the Boards and the Agency, (B) procedures to be followed to ensure communication and program coordination, (C) the manner by which the parties will settle their disputes, (D) implementation steps, and (E) procedures for amending, withdrawing from, and repealing this MOU.

II. BACKGROUND

California has a decentralized environmental management system. At the state level, the ARB, SWRCB, CIWMB, and Department of Health Services (DHS) formulate policies and regulations pertaining to air quality, water quality, solid waste, and hazardous waste, respectively. At the regional and local levels, the Air Quality Management Districts, Air Pollution Control Districts, Regional Water Quality Control Boards, and Local Enforcement Agencies conduct permitting and enforcement activities.

Many environmental issues cut across organizational lines. These interagency issues stem from the fact that pollutants do not recognize the boundaries of environmental media or political and institutional subdivisions. To effectively deal with interagency issues, the management of the Boards and the Agency set forth in this MOU some guiding principles and procedures to govern our conduct.

III. GENERAL PROVISIONS

A. SCOPE

This MOU is binding upon the ARS, SWRCS, CIWMB, and Agency. This MOU is effective immediately.

This MOU covers all activities of the Boards, and shall be used to determine the relationship of the Boards and guide communication among them and with the Agency.

 An MOU is being prepared by the three Boards regarding solid waste disposal site testing and remediation (the SWAT program). For coordination of SWAT program activities, the parties should refer to both this MOU and the SWAT program MOU.

It is anticipated that in a limited number of instances, other, programspecific MOUs may be developed as a result of the problem identification and dispute resolution provisions of this MOU.

Although the local air districts, regional water quality control boards, and solid waste local enforcement agencies are not signatories to this agreement, the three Boards understand and agree that it is each Board's responsibility to inform and coordinate with their respective local or regional counterparts as outlined in Section IV(8)(3)(a) below.

B. PRINCIPLES

The Boards and the Agency recognize that we share a common goal--protection of public health and the environment. We also recognize that the resources available to achieve this goal are limited, and that duplication of effort, conflict, and confusion detract from our collective efforts. It therefore is the policy of the Agency and the Boards that the parties work together, in an atmosphere of mutual trust, confidence, cooperation and communication, to maximize the efficient use of our resources. Accordingly, the ARB, SWRCB, CIWMB, and the Agency are committed to work together, with other state agencies and other levels of government, to closely follow these guiding principles:

- We will resolve conflicts promptly.
- We will promote a multimedia approach to pollution control and pollution prevention that minimizes the total exposure to pollution faced by humans and the environment.
- We will avoid duplication of effort, and maximize the efficient use of resources.

C. EXISTING STATUTORY FRAMEWORK

- Statutes of the State of California authorize certain actions or provide fundamental authority which must govern the operation of this MGU. Relevant sections include:
 - a. The AR8 has the responsibility for control of emissions from motor vehicles and shall coordinate, encourage, and review the efforts of all levels of government as they affect air quality (Health and Safety Code Section 39500).

The ARB is the air pollution control agency for all purposes set forth in federal law (Health and Safety Code Section 39602).

b. The SWRCB is the principal state agency with primary responsibility for the coordination and control of water quality (Water Code Section 13001).

The SWRCB is the state water pollution control agency for all purposes stated in the Federal Water Pollution Control Act and any other federal act (Water Code Section 13160).

c. The CIWMB shall adopt and revise minimum standards for solid waste handling and disposal for the protection of air, water and land from pollution (Public Resources Code Section 43020). The Board shall adopt rules and regulations, as necessary, to carry out Division 30 of the Public Resources Code (Public Resources Code Section 40502). The standards which the CIWMB must adopt shall include the design, operation, maintenance and ultimate reuse of solid waste processing or disposal facilities (Public Resources Code Section 43021).

The CIWMB is the state solid waste management agency for all purposes stated in the Federal Resources Conservation and Recovery Act of 1976 and any other federal act affecting solid waste (Public Resources Code Section 40508).

- d. The Chairperson of the ARB serves as the principal advisor to the Governor on, and assists the Governor in establishing, major policy and program matters on environmental protection. The Chairperson also serves as the principal communications link for the effective transmission of policy problems and decisions to the Governor relating to the activities of the SWRCB and the CIWMB (Health and Safety Code Section 39511).
- 2. Other statutory provisions, noted below, speak to the interaction of the Boards. In particular, these provisions address the interaction of the Boards with respect to control of the air quality and water quality impacts of solid waste management facilities. However, these provisions do not adequately cover all

situations that arise, they are themselves subject to interpretation, and in general they need to be viewed in the context of each Board's general authority as outlined above. Section IY(A)(4) below sets forth procedures to be used to address such issues.

- The statutory provisions which speak to the interaction of the Boards are as follows:
 - a. The CIWMB shall consider any recommendations of the ARB for the prevention of air pollution and the SWRCB for the prevention of water pollution (Public Resources Code Section 43020).
 - Division 30 of the Public Resources Code (which confers CIWM8 authority) is not a limitation on the power of any state agency in the enforcement or administration of any provision of law which it is specifically authorized or required to enforce or administer, including, but not limited to, the exercise by the state water board or the regional water boards of any of their powers and duties pursuant to Division 7 (commencing with Section 13000) of the Water Code, and the exercise by the State air quality management district of any of its powers and duties pursuant to Part 3 (commencing with Section 40000) of Division Section 40055 (a)).
 - c. The exercise of CIWMB authority under Division 30, including, but not limited to, the adoption of regulations, plans, permits, or standards and enforcement actions shall not duplicate or be in conflict with any determination relating to water quality control made by the state water board or regional water boards. (Public Resources Code Section 40055(b)).
 - d. Any plans, permits, standards, or corrective action taken by the CIWMB pursuant to Division 30 shall incorporate, as a condition of the action, any applicable waste discharge requirements issued by the state water board or a regional water board, and shall be consistent with all applicable water control plans adopted pursuant to Section 13170, and Article 3 (commencing with Section 13240) of Chapter 4 of Division 7, of the Water Code and the state policies for water quality control of Chapter 3 of Division 7 of the Water Code existing at the time of the action or proposed action. (Public Resources Code Section 40055(c)).
 - e. No provision of Division 7 of the Water Code (which confers SWRCB authority) or any ruling of the state [water] board or a regional board is a limitation . . . on the power of a state agency in the enforcement or administration of any provision of law which it is specifically permitted or required to enforce or administer (Water Code Section 13002).

IV. SPECIFIC PROVISIONS

- A. BOARD AND AGENCY RESPONSIBILITIES
- The ARB is responsible for development of standards and regulations
 pertaining to air quality, the SWRCB is responsible for development
 of standards and regulations pertaining to water quality, and the
 CIMMB is responsible for development of standards and regulations
 pertaining to waste management.
- 2. It is the responsibility of all Boards to act in a fashion to minimize overlap and duplication of effort. Management of the Boards has an affirmative responsibility to identify areas of duplication and overlap, work towards a mutually-agreeable delineation of activity, and foster a multimedia approach to pollution prevention and pollution control. The Agency will, as a back-up mechanism, screen Board material to identify issues with potential multi-Board implications.
- 3. It is the intent of the Boards and the Agency that regulations pertaining to issues of mutual interest, to the extent possible, be jointly developed by the affected Boards. The development of regulations by the Boards shall be governed by the following
 - a. When a Board determines that it intends to develop or modify regulations, it shall notify the other Boards and the Agency in writing as to the subject matter of any proposed new regulation, and the section numbers of any existing regulations proposed to be modified.
 - b. The other Boards shall review the notice and, within 30 days, notify the originating Board and the Agency in writing as to which proposals, if any, deal with issues that are of concern.
 - c. For issues so identified, regulatory language shall be jointly developed by the affected Boards. The resulting language shall be adopted by each affected Board and placed in the relevant portion of the California Administrative Code for each affected Board.
 - d. Any disputes that arise during this process shall be resolved according to the dispute resolution procedure outlined in Section IV(C) below. If the dispute cannot be resolved in a manner that results in the adoption of identical language by each affected Board, then any Board may proceed with individually developed regulations.
- 4. The Boards shall apply the following procedures when interpreting and implementing the statutory provisions regarding the interaction of the Boards cited in Section III(C)(3) above:

- a. Any disagreement as to the interpretation of the abovereferenced statutory provisions shall be resolved according to the dispute resolution procedure outlined in Section IV(C) below.
- b. The CIWMB shall be the principal coordinating agency for all matters concerning the collection and disposal of solid waste in California, acting in concert with other affected state agencies. To "act in concert" means to act in a manner consistent with the intent and the provisions of this MOU.
- C. As a pro-active measure to prevent potential conflict, the Executive Officers, at the first quarterly meeting convened pursuant to Section IV(D) below, shall identify critical waste management-related regulatory-areas where cooperative work is needed. ("Executive Officers" refers to the Executive Officer of the ARB, the Executive Director of the SWRCB, and the Chief Executive Officer of the CIMMB). The Executive Officers shall define tasks and milestones necessary to address the identified issues.
- d. At subsequent quarterly meetings the Executive Officers shall review progress on waste management coordination, take corrective action as needed, and identify future needs.
- 5. It is the responsibility of each Board to:
 - a. Communicate with the other Soards in a timely manner.
 - Forward applicable draft policies, regulations, guidance documents or other relevant materials to the Agency for screening.
 - c. Notify other Boards when a particular facility, site or issue is of interest.
 - d. Provide comment, analysis, evaluation and advice on areas within its unique expertise.
 - e. Carry forward to other Boards the concerns and positions expressed by advocacy groups active in its issue areas.
- 6. It is the responsibility of the Agency to:
 - a. Screen the draft materials forwarded pursuant to Section IV(A)(5)(b) above to identify areas with potential multi-Board impact. If the Agency identifies such a potential impact, the Agency will provide comments to all Boards.

B. COMMUNICATION

The parties recognize that achieving the goals of this MOU rests upon effective communication across programmatic and organizational lines. This MOU therefore sets forth procedures addressing communication at the management level, at the staff level, with other levels of government, and with regulated facilities. The purpose of these procedures is to systematize and formalize the existing communication mechanisms.

- At the management level, the Executive Officers or their designees will meet quarterly as described in Section (IV)(0) below.
- Another essential step is fostering an awareness, at the staff level, that our environmental programs are inter-related, and that actions taken in one program can-have an effect upon other programs. In order to encourage such an awareness, the Executive Officers will:
 - a. Identify the issues where inter-staff communication is needed.
 - b. Designate, for each Board, a contact person on that issue.
 - c. Ensure that the contact persons meet on a regular basis.
 - Provide regular opportunities for cross-program training and orientation.
 - e. Provide copies of Office of Administrative law rulemaking calendars to Agency and to the other Boards.
- 3. Local government and the federal government are essential components of California's environmental regulatory system. The Boards and the Agency recognize that the state must work with other levels of government in a clear, consistent fashion, and that each Board has a unique relationship with its local and federal counterparts.
 - a. Each Board and the Agency agrees to work through the appropriate Board when communicating with local and regional agencies on a statewide basis. Any communication addressed to all local air pollution districts shall be routed through the ARB, communication addressed to all Regional Boards shall be routed through the SWRCB, and communication addressed to all Local Enforcement Agencies shall be routed through the CIWMB. Communication addressed to a single local or regional agency on a site-specific basis need not be routed through the appropriate Board. In such cases, however, the Board shall receive a copy of the correspondence.
 - b. When providing comments to or otherwise communicating with federal agencies, each Board shall work with the other Boards to ensure that a consistent, coordinated state position is expressed.

4. It also is important that the Boards and the Agency deal with regulated facilities in a consistent, predictable fashion. The long-term credibility and effectiveness of our environmental programs suffers whenever regulatory agencies impose conflicting or duplicative requirements on facilities.

In order to prevent such occurrences, each Board will establish procedures to ensure that appropriate notification is provided to other Boards regarding activities which affect facilities which are also regulated by other Boards.

C. DISPUTE RESOLUTION

It is the intent of the three Boards and the Agency that
programmatic conflicts be resolved, to the extent possible, through
informal discussion, negotiation, and consensus. However, it is
also the intent that conflicts be resolved promptly.

If a dispute cannot be resolved informally within a reasonable length of time or if continuing nonresolution of the dispute would place a Board at a disadvantage, then any Board may notify the other Boards and the Agency that a dispute exists and invoke the formal dispute resolution procedure described below.

- 2. Disputes shall be resolved formally using the following procedure:
 - a. A meeting shall be convened involving staff from the affected Boards. At the meeting the staffs shall clarify the issues subject to dispute, identify alternative solutions, identify the consequences that would result from each alternative, and determine the date by which a decision is needed. This information shall be provided to the relevant Division Chiefs, who shall have no more than 30 days to resolve the issue.
 - b. If the Division Chiefs from the affected Boards cannot resolve the dispute within the time allowed, then they will jointly notify the Executive Officers of the affected Boards, and the Agency Secretary.

The affected Boards shall jointly be responsible for resolving the dispute. If the dispute is not resolved within 30 days, then the issue shall be referred to the Agency Secretary for resolution. The Agency Secretary, acting in consultation with the affected Boards, shall develop a recommended course of the dispute.

of action acceptable to all affected Boards within 30 calendar days of referral from the Boards, then each affected Board shall prepare a memorandum providing direction to their respective staffs as to how to proceed in the case. These memoranda will not necessarily describe a single course of action, but are intended to communicate and document each Board's future direction.

- d. If the dispute is resolved by the Agency Secretary, then a written decision shall be provided to all parties of this MOU.
- 3. If, on an issue for which the formal dispute resolution mechanism has been invoked, a formal petition for review of an action or inaction by a 80ard is filed by a third party, the statutory or regulatory time periods required for action on the petition shall take precedence over those in Section IV(C)(2) above. However, the parties shall attempt to complete the actions described in Section IV(C)(2) to resolve the dispute within the statutory or regulatory time periods associated with the petition.

D. IMPLEMENTATION

1. In order to facilitate implementation of this MOU, the Executive Officers or their designees and the Secretary of Environmental Affairs designee will meet quarterly. This group will provide guidance and advice to the Agency Secretary and Board staff on technical issues that develop during performance under this agreement, and will assist, if called upon, in the settlement of technical disputes. The group will also evaluate the achievement of the principles of this MOU and will provide an annual report to the Agency Secretary. This report will be submitted by March 1 of each year, will cover the prior calendar year and will, if appropriate, include recommendations for modifications to this MOU to improve attainment of the principles of the parties.

The quarterly meetings will be held on a rotating chair basis, with each Executive Officer or designee and the Agency Secretary designee being responsible, in turn, for organizing and hosting the meeting and preparing the agenda.

 The first quarterly meeting of the Executive Officers or their designees will be held within 30 days of the execution of this MOU.

AMENDMENT, WITHDRAWAL, AND REPEAL

- This MOU may be amended with the mutual written approval of all signatories or their successors.
- 2. Any signatory to the MOU, or his or her successor, may withdraw from the MOU by sending written notification to the Agency Secretary. In the event that one party withdraws from the MOU, the MOU continues in full force for the remaining parties and continues to govern their activities.
- This MOU may be repealed in its entirety with the mutual written approval of all signatories or their successors.

The parties hereto have caused this MOU to be duly executed on the respective dates set forth opposite their signatures.

Jananne Sharpless

Secretary of Environmental Affairs

8/27/90 Date

James Boyd. Executive Officer

Air Resources Board

0atg 7/90

James Baetge, Executive Director State Water Resources Control Board 8/27/90 Date

George Layson; Chief Executive Officer California Integrated Waste Management Board 8/27/90 Oate

MEMORANDUM OF UNDERSTANDING BETWEEN THE

STATE WATER RESOURCES CONTROL BOARD AND THE

CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION
FOR THE PROTECTION OF
WATER QUALITY (SURFACE AND GROUND WATER)
FROM POTENTIALLY ADVERSE
EFFECTS OF PESTICIDES

BACKGROUND

The State Water Resources Control Board (SWRCB) and the California Department of Pesticide Regulation (CDPR) have responsibilities relating to the protection of water quality from the potentially adverse effects of pesticides. Both agencies believe that the State will benefit by a unified and cooperative program to address water quality problems related to the use of pesticides.

The purpose of this Memorandum of Understanding (MOU) between the SWRCB and CDPR is to ensure that pesticides registered in California are used in a manner that protects water quality and the beneficial uses of water while recognizing the need for pest control.

The Food and Agricultural Code, as amended by the 1991 Governor's Reorganization Plan No. 1, charges CDPR with the responsibility of ensuring the orderly regulation of pesticides while protecting the quality of the total environment (including water quality) and the health, and safety of the public.

SCOPE

This MOU is intended to assure that the respective authorities of the SWRCB and CDPR, relative to the protection of water quality and beneficial uses from impairment by the use of pesticides, will be exercised in a coordinated and cohesive manner designed to eliminate overlap of activities, duplication of effort, and inconsistency of action. To that end, this MOU establishes principles of agreement regarding activities of the signatory agencies, identifies primary areas of responsibility and authority between these agencies, and provides methods and mechanisms necessary to assure engoing coordination of activities relative to such purposes. This MOU also describes how the agencies will work cooperatively to achieve the goals of the respective agencies.

STATUTORY AUTHORITIES

The Porter-Cologne Water Quality Control Act establishes a comprehensive water quality control program for California. The Federal Clean Water Act adds additional water quality control provisions to be implemented nationwide. The SWRCB and the nine California Regional Water Quality Control Boards (CRWQCB) are responsible for protecting the beneficial uses of water in California and for controlling all discharges of waste into waters of the State. The SWRCB sets overall State policy, adopts or approves all water quality control plans, and hears petitions to review CRWQCB decisions. The CRWQCBs have primary responsibility for permitting, inspection, and enforcement actions. The CRWQCBs implement and enforce the policies adopted by the SWRCB.

CDPR is the lead agency for pesticide regulation in California. California law requires CDPR to register and regulate the use of pesticides and protect public health and safety by providing for environmentally sound pest management.

The Pesticide Contamination Prevention Act of 1985 (Article 15, Chapter 2, Division 7 of the Food and Agricultural Code) authorizes CDPR to:

- Collect and analyze environmental fate data on all pesticides registered for agricultural use in California to determine ground water data gaps and identify and monitor potential ground water contaminants;
- Review any pesticide or related chemical found in ground water or in soil under certain conditions to determine if that chemical pollutes or threatens to pollute ground water as a result of legal agricultural use and take appropriate corrective action when necessary; and
- Compile and maintain a statewide database of wells sampled for pesticide active ingredients and to make an annual report on that inventory and any corrective actions taken by CDPR and/or the SWRCB.

The Pesticide Contamination Prevention Act (Act) also prescribes a cooperative working relationship between CDPR, as the lead agency, and the SWRCB for the purpose of protecting ground water from pesticide pollution as a result of agricultural uses. A subcommittee of CDPR's Pesticide Registration and Evaluation Committee (PREC) is established by the Act for this purpose.

The local administration of CDPR's pesticide regulatory program is the responsibility of the County Agricultural Commissioners (Commissioners), with coordination, supervision, and training provided by CDPR. The Commissioners enforce pesticide laws and regulations and evaluate permit requests for the use of restricted pesticides. In addition, the Commissioners monitor and inspect pesticide handling and use operations, investigate suspected pesticide misuse, and take enforcement action against violators.

PRINCIPLES OF AGREEMENT

The SWRCB and CDPR agree that the use of certain pesticides may degrade water quality and threaten beneficial uses. To protect the State's water, it is necessary to prevent water pollution by pesticides by establishing water quality objectives and by implementing control measures for those pesticides which have a potential to unreasonably affect beneficial uses.

In order to provide for better protection of water quality and beneficial uses for the people of California, the SWRCB and CDPR mutually agree to:

- 1. Promote both technical and policy consultations concerning pesticide water quality issues through formal channels, such as standing interagency committees and SWRCB workshops and meetings, as well as through informal staff exchanges of information. The SWRCB and CRWQCBs and CDPR will consult during the early stages of planning any investigation related to pesticides and water quality. The agencies will provide technical assistance to each other upon request.
- 2. Implement a pesticide detection notification system to ensure mutual awareness of pesticide finds in the waters of the State. Results of pesticide monitoring will be provided in an expeditious manner. Results of pesticide monitoring related to ground water will be provided in compliance with "Minimum Reporting Requirements for Well Sampling" approved by the SWRCB, California Department of Food and Agriculture, and California Department of Health Services in July 1986. Reporting requirements and procedures for data referrals relative to surface water will be described in an implementation document.
- 3. Collect, exchange, and disseminate information on (a) the use of pesticides, (b) impacts on the quality of the State's waters from such uses, and (c) any efforts to mitigate those impacts.

- 4. Share information on pesticide formulations and environmental fate and toxicity of active ingredients, inert ingredients, and break-down products. Procedures to protect proprietary information will be described in an implementation document.
- Consult each other in developing or revising water quality objectives for pesticides and in developing or revising regulations which may impact water quality.
- 6. Participate in the development of State policies, guidelines, and management plans relative to pesticide use and water quality control.
- 7. Promote the development and implementation of Best Management Practices (BMPs) whenever necessary to protect the beneficial uses of the waters of the State from the potentially adverse effects of the use of certain pesticides. CDPR's plans to implement BMPs, as furnished to the SWRCB and/or CRWQCBs, should (a) describe the nature of the actions which are necessary to achieve the objectives, including recommendations for appropriate actions by any entity, public or private; (b) set a time schedule for actions to be taken; and (c) describe the points of application and the monitoring to be undertaken to determine compliance with the water quality objectives.
- 8. Implement BMPs initially upon voluntary compliance to be followed by regulatory-based encouragement of BMPs as circumstances dictate. Mandatory compliance will be based, whenever possible, on CDPR's implementation of regulations and/or pesticide use permit requirements. However, the SWRCB and CRWQCBs retain ultimate responsibility for compliance with water quality objectives. This responsibility may be implemented through the SWRCB and CRWQCBs' Basin Planning Programs or other appropriate regulatory measures consistent with applicable authorities and the provisions of the Nonpoint Source Management Plan approved by the SWRCB in November 1988.
- 9. Develop an implementation plan to (a) provide uniform quidance and direction to the CRWQCBs and to the Commissioners regarding the implementation of this MOU, (b) describe in detail procedures to implement specific sections of this MOU, and (c) make specific the respective roles of units within the signatory agencies.

DISPUTE AND CONFLICT RESOLUTION

It is the desire of both agencies to establish a speedy, efficient, and informal method for the resolution of interagency conflicts. Conflicts between the SWRCB and CRWQCBs, CDPR, and the Commissioners which cannot otherwise be informally resolved will be referred to the Executive Director of the SWRCB and the Director of CDPR. Conflicts which cannot be resolved at this level will be elevated to the Secretary of the California Environmental Protection Agency.

To assist the Executive Director of the SWRCB and the Director of CDPR in resolving conflicts, two staff persons will be appointed by the Chairman of the SWRCB and the Director of CDPR representing the interests of the SWRCB and CRWQCBs and CDPR and Commissioners, respectively.

This MOU shall become effective upon the date of final signature and shall continue in effect until modified by the mutual written consent of both parties or until terminated by either party upon a thirty (30) day advance written notice to the other party.

STATE WATER RESOURCES CONTROL BOARD

w. Non Maughan, Chairman

Dec. 23, 1991

CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION

James W. Wells, Interim Director

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MEMORANDUM OF UNDERSTANDING (MOU) FOR IMPLEMENTATION OF

THE SAN JOAQUIN VALLEY DRAINAGE PROGRAM'S RECOMMENDED PLAN DECEMBER 1991

The U. S. Bureau of Reclamation, U. S. Fish and Wildlife Service, U. S. Soil Conservation Service, U. S. Geological Survey, Department of Water Resources, Department of Fish and Game, Department of Food and Agriculture, and the State Water Resources Control Board agree to the following:

- Background. A management plan for agricultural subsurface drainage and related problems on the westside San Joaquin Valley was developed by the Federal-State San Joaquin Valley Drainage Program (SJVDP) during the period 1985-1990, and published in a September 1990 report by the same name.
- 2. Purpose. All parties to this MOU will use the management plan described in the September 1990 final report of the San Joaquin Valley Drainage Program (SJVDP Recommended Plan) as the principal guide for remedying subsurface agricultural drainage and related problems. All parties will work together to identify and define specific tasks and associated responsible parties, to seek needed funding and authorities, and to determine schedules for accomplishment, as necessary to implement all components of the SJVDP Recommended Plan.
- 3. Program. The parties will use the strategy described in "A Strategy for Implementation of the Management Plan for Agricultural Subsurface Drainage and Related Problems on the Westside San Joaquin Valley", December 1991, as the initial step in developing an action plan. Based on it, the parties will prepare an annual work plan to establish priorities and coordinate activities to address the objectives of the Recommended Plan. During 1992, the parties will prepare work plans for 1992 and 1993. Subsequent work plans will be prepared two years in advance to facilitate budget development and funding requests. The parties will prepare an annual report that will outline and evaluate accomplishments during the year.

4. Funding and Legal Authority. It is understood by all parties that implementation of this MOU and the SJVDP Recommended Plan are subject to the availability of funding and legal authority. All parties to this MOU agree to support attempts by signatory agencies to secure the funding and authority necessary to implement work plans adopted pursuant to this MOU.

In order to enhance efficiency and economy, and reduce duplications or conflicts in efforts, all parties to this MOU agree to coordinate requests for funding and authority.

- 5. Amendments. This MOU may be modified by mutual agreement as necessary to accomplish drainage management objectives.
- 6. <u>Withdrawal</u>. Any party to this MOU may withdraw by submitting a written notice to each of the other parties 120 days in advance of the intended withdrawal.
- MOU not a contract. In entering into this MOU, it is the intention of the parties that this MOU shall not be construed to be an enforceable contract or agreement, but is rather a statement of principles.
- 8. Term of MOU. This MOU shall remain in effect until all components of the SJVDP Recommended Plan have been fully implemented or until it is dissolved by unanimous agreement of the signatory parties.

U. S. Bureau of Reclamation

Department of Water Resources

Howard A Sararah

Department of Fish and Game

Department of Food and Agriculture

Whon Mauntan

State Water Resources Control

Board

MEMORANDUM OF UNDERSTANOING BETWEEN THE STATE WATER RESOURCES CONTROL BOARD AND THE CALIFORNIA INTEGRATED WASTE MAMAGEMENT BOARD FOR THE REVIEW OF BACKLOGGED SOLID WASTE ASSESSMENT TEST REPORTS

INTRODUCTION

This Memorandum of Understanding (MOU) consists of general and specific provisions for the review of Solid Waste Assessment Test (SWAT) reports as required by Assembly Bill 3348 (Eastin), signed by the Governor September 29, 1992.

BACKGROUND

Agency Authority:

The California Water Code, Division 7 designates the State Water Resources Control Board (State Water Board) as the State's lead regulatory agency for water quality protection.

The California Public Resources Code, Division 30 designates the California Integrated Waste Management Board (CIWMB) as the state's lead regulatory agency for solid waste disposal.

Solid Waste Assessment Test Program:

In 1984, the Legislature adopted California Water Code §13273 which, among other things, required:

- A. The State Water Resources Control Board (State Water Board) to group all solid waste disposal sites (both active and closed) in ranks of 150 each in accordance with their threat to water quality,
- B. All landfill owner/operators, one rank per year, to conduct a SWAT (a determination whether the landfill is leaking hazardous waste) and to submit to the appropriate California Regional Water Quality Control Boards (Regional Water Boards) a report signed by a specified professional containing the findings of the SWAT together with appropriate conclusions,
- C. The Regional Water Boards are to review this report and determine whether, (1) the monitoring system was adequate to determine whether hazardous waste had leaked for the site and (2) the report author's conclusions were credible.

Current SWAT Program Status:

Between the start up of the SWAT program and June 30, 1991, 195 SWAT reports were approved and 15 SWAT waivers granted (for those cases where hazardous waste leakage was already well known). In addition, another 231 SWAT reports had been received, but not approved. Because of the heavy demands on the State's General Fund, funding for SWAT report review was eliminated in July 1991, leaving this large backlog of unreviewed SWAT reports.

Assembly Bill Number 3348 (Eastin):

In 1992, the Legislature adopted Assembly Bill 3348 (Eastin) which contains in Section 10, the following language:

*The following sums are hereby appropriated from the Solid Waste Disposal Site Cleanup and Maintenance Account in the Integrated Waste Management fund to the State Water Resources Control Board:

"(a) (1) Two million five hundred thousand dollars (\$2,500,000). as a one-time allocation, but without regard to fiscal year, to complete a review of all solid waste assessment test reports that are required to be submitted to the appropriate regional water quality control boards by July 1, 1991, that have been classified in ranks one through five in the Solid Waste Assessment Test (SWAT) program pursuant to Section 13273 of the Water Code.

"(2) The expenditure of these funds shall be subject to the conditions specified in a memorandum of understanding which shall be entered into by the California Integrated Waste Management Board and the State Water Resources Control Board and which shall include, but need not be limited to, provisions linking the review and ranking of solid waste landfill facilities by the State Water Resources Control Board with the Solid Waste Disposal Site Cleanup and Maintenance Program implemented by the California Integrated Waste Management Board."

and the following:

"(c) The Legislature encourages the State Water Resources Control Board to complete the review performed pursuant to paragraph (1) of subdivision (a) on or before June 30, 1995."

THE CIWAB AND THE STATE WATER BOARD AGREE TO THE FOLLOWING:

Scope:

This MOU is effective immediately and is binding upon CIWMB, the State Water Board, and the nine Regional Water Boards.

This MOU includes provisions for sharing data, ensuring that activities at sites of common interest are coordinated, and conflict resolution.

Sharing of Data:

- A. SWAT Report Summaries: The State Water Board will provide the CIWMB copies of all SWAT Report Summaries as prepared by the Regional Water Boards. Newly prepared Summaries shall be transmitted quarterly.
- B. Quarterly Progress Report: Every three months, the State Water Board will provide the CIWMB an updated SWAT Status Report showing the current SWAT report review status for each landfill included in Ranks 1 through 5. For those SWAT reports which have not been approved yet, these status reports shall include for each, the name of the staff person assigned to work on it and the anticipated quarters (1) the review will start, (2) a corrected Report will be submitted, or (3) the SWAT report will be approved.
- C. Final Report: The State Water Board will prepare a Summary Report of the findings of all the SWAT reports to date including, but not limited to, discussions of the following:
 - Hazardous waste presence in landfills,
 - General characterization of solid waste disposal site leakage,
 - Chemical characterization of leakage,
 - 4. Impact of leakage on quality of nearby waters,
 - Impact of leakage on beneficial uses of nearby waters, especially of drinking water supply wells, and
 - Completed or proposed remedial actions.

In addition, this report shall contain a discussion of needed improvements in landfill designs and monitoring to reduce the threat which landfills pose to the beneficial uses of the State's waters.

A copy of this report shall be provided to the CIWMB by June 30, 1995.

Ensuring that Activities of Common Interest are Coordinated:

Whenever the CIWMS has a need for expedited Regional Water Board review of any landfill's SWAT report, CIWMS shall:

- A. Request such a review in writing to the State Water Board and
- B. State the date by which they need these data.

The State Water Board shall respond within 10 working days of the receipt of the request with:

- A. The anticipated date the review will be completed, and
- B Reasons for delay should it be impossible to meet the CIWMB's due date.

Conflict Resolution:

Any dispute arising out of the implementation of this Agreement shall be resolved in the following manner:

- A. The designated Program Managers for the CIWMB and the State Water Board shall meet within ten (10) days of a request by either party. The party calling the meeting shall provide, in writing, at least five (5) days in advance of the meeting, a clear description of the dispute and a proposed solution. Following the meeting, the CIWMB Program Manager shall make a determination on the dispute, in writing, including reasons for the determination. The determination shall be sent to the State Water Board Program Manager within ten (10) days of the meeting.
- B. If the State Water Board does not agree with the determination, the State Water Board may make a written request for a meeting between the Deputy Executive Director of the CIWMB, and the Chief of the Division of Clean Water Programs of the State Water Board. Such a meeting should occur within fifteen (15) days of the receipt of such request. The request must be accompanied by a statement of the disputed issues and a proposed solution. The CIWMB shall make a determination, in writing, and shall send this to the Chief, Division of Clean Water Programs, State Water Board, within fifteen (15) days of the meeting.
- C. If the two Division Chiefs cannot resolve the issue in dispute, the matter shall be elevated to the Executive Directors of the two agencies for resolution.
- D. Unresolved issues may be elevated to the Board Chairpersons of the State Water Board and the CIWMB.

E. Any issues which cannot be resolved by the Board Chairpersons shall be forwarded to the Secretary for Environmental Protection for a final and binding decision.

Ralph Chandler
Executive Director
California Integrated Waste
Management Board
State of California

Date: 1/8/93

Walt Pettit

Executive Director

State Water Resources Control Board State of California

Date: DEC 151992

SOLID WASTE ASSESSMENT TEST (SWAT)/AB 3348 PROGRAM QUARTERLY STATUS REPORT EXAMPLE FORMAT

For ea	sch landfill included in Rands 1 through 5:							
1.	Rank: 4							
2.	Name (including SWIS and WMUDS numbers): Klamath County 59-AA-001, 1AI23456789	Landfill,						
3.	Location (County and Nearest Community): Klamath, Deadma	ın's Bar						
4.	Review Status:							
	A. Approved,	<u></u>						
	B. Awaiting Review,	1_1						
	C. <u>In Review</u> ,	<u></u>						
	D. Returned to Owner/Operator for Corrections, or	[<u>x</u>						
	E. Never received.	<u> </u>						
5.	Regional Water Board (if status 4B, 4C, or 4D above, name number of review): North Coast, Jane Doe, (209) 555-1212	and telephone						
6.	Review Target Dates (by Quarter)							
	A. State of Review:							
	B. Due date for Owner/Operator to have corrections made:	3rd Quarter, FY 1992-93						
	C. Approval of SWAT Report:							
7.	Comments: No ground water sample taken. SWAT Investigation inadequate. Letter to owner/operator ordering correction was sent out February 1992 with a March 1993 deadline.	on was clearly of deficiencie						

MEMCRANDUM OF UNDERSTANDING BETWEEN THE BUREAU OF LAND MANAGEMENT

U.S. DEPARTMENT OF THE INTERIOR AND THE

CALIFORNIA STATE WATER RESCURCES CONTROL BOARD FOR

PLANNING AND COORDINATION OF NONPOINT SOURCE WATER QUALITY POLICIES AND ACTIVITIES

I. PURPOSE:

The purpose of this Memorandum of Understanding (MOU) is to formalize cooperation between the Bureau of Land Management (BLM), U.S. Department of the Interior, and the State Water Resources Control Board (SWRCB) and to develop appropriate procedures and clarify responsibilities related to nonpoint source (NPS) water quality issues and activities. The BLM and SWRCB share a common interest in maintaining, protecting, and improving the quality of waters (surface and ground water) of the State.

II. OBJECTIVES:

Through this MOU, SWRCB seeks to utilize the personnel and expertise of BLM to increase the development and implementation of water quality programs and projects relative to, but not limited to, agricultural, animal husbandry, silvicultural, mining, and construction activities on the public lands managed by BLM within the State of California. Coordination and cooperation between BLM and SWRCS will reduce unnecessary duplication of effort, accelerate the implementation of best management practices (BMPs), management measures (MM), and other MPS measures (NPSM) and increase overall program effectiveness.

The SWRCB and BLM recognize the need to improve, conserve, and protect the quality of surface and ground water by undertaking efforts to avoid pollution by NPSs and thereby maintain the quality and quantity of water available for safe drinking water supplies, irrigated agriculture, fisheries, and other beneficial uses. A coordinated effort will improve the likelihood of meeting these goals.

III. AUTHORITIES:

This MOU is entered into under the authorities of Division 7 of the California Water Code (Porter-Cologne Water Quality Control Act (Porter-Cologne Act)), the

authorities of the federal Clean Water Act (CWA), [Section 304(1), 314, 319, and 320], as amended, and the Federal Land Policy and Management Act of 1976, as amended, 43 U.S.C. 1701, et seq.

BLM Manual Section $7000.06(D-\Xi)$, March 8, 1984, established BLM's policy for coordination with State agencies for related programs and provided for compliance with applicable State and federal water pollution control laws, standards, programs, and implementation plans.

BLM Instruction Memorandum No. 88-511, June 17, 1988, provides guidance to BLM field offices regarding coordination with State agencies on NPS pollution control activities. Instruction Memorandum No. 88-511 also addresses how BLM's NPS actions will be incorporated into the BLM planning process and into BLM's overall multipleuse resource objectives.

8LM has management responsibility for over 17 million acres of federal public lands throughout California. BLM's land-use oversight is provided through four district offices which are further subdivided into 15 resource area offices.

The Porter-Cologne Act, administered by SWRCB and the California Regional Water Quality Control Boards (CRWQCBs) establishes a comprehensive program for the protection of water quality and the beneficial uses of the waters of the State. The Porter-Cologne Act provides a "statewide program for water quality control."

SWRC3 sets overall State policy, adopts statewide water quality control plans, approves all water quality control plans adopted by the CRWQCBs, and hears petitions to review CRWQCBs actions or inactions. The CRWQCBs have primary responsibility for permitting, inspecting, and enforcing actions regarding dischargers of waste. The CRWQCBs implement and enforce the policies and plans adopted by SWRCB.

Section 319 of CWA, as amended, requires the State to develop an NPS management program for controlling NPS pollution. SWRCB has developed a State NPS management program which lists the BLM as an agency with BMP/MM/NPSM implementation capability.

IV. PROCEDURES:

A. BLM AGREES TO:

- Integrate water quality concepts and management techniques into the BLM planning system and into environmental review and clearance of land-use proposals to address surface and ground water NPS pollution.
- Provide copies of draft Resource Management Plans, draft Environmental Impact Statements, and draft Environmental Assessments which have significant water quality issues to the CRWQCBs responsible for the affected area.
- Provide BLM activity plans for those actions which have NPS issues as a primary concern to the responsible CRWQCBs for review and comment.
- Incorporate BMP/MM/NPSM into BLM land uses and BLM permitted land uses, when necessary, to protect or maintain water quality.

B. SWRCB AGREES TO:

- Encourage the voluntary or cooperative approach as the first step in the development and implementation of solutions to the NPS problem.
- Coordinate the activities of the CRWQCBs with those activities being proposed and implemented by the BLM.
- Define the goals and objectives of the NPS Interagency Advisory Committee and conduct regular meetings.
- Emphasize to the CRWQCBs the importance of a timely response to BLM documents submitted for review.

C. SLM AND SWRCB MUTUALLY AGREE TO:

 Encourage participation of other federal, State, and local agencies and land users in the control of NPS pollution.

- Develop a process for BMP/MM/NPSM selection and implementation to reduce or prevent NPS pollution from public lands.
- Develop BMP/MM/NPSM for federal land uses with input from the NPS Interagency Advisory Committee and other affected parties.
- 4. Develop implementation priorities and policies for NPS pollution activities.
- Provide NPS guidance and technical assistance to parties responsible for implementation of NPS pollution control on public lands.
- Encourage the participation of BLM, SWRCB, and CRWQCB staffs in on-the-ground inspections and tours to discuss public land NPS issues and proposed, ongoing, or completed BMPs.
- 7. Develop a Water Quality Management Plan and a Management Agency Agreement for the purpose of carrying out portions of the State's NPS Management Program on BLM lands.
- 8. Wherever appropriate, encourage the development and implementation of comprehensive management plans covering entire or significant portions of watersheds. These plans would be developed using the principles of Coordinated Resource Management and Planning and, as appropriate, would seek to resolve issues relating to biological diversity as they relate to NPS pollution.

V. ADMINISTRATION:

- A. Nothing in this MOU alters the statutory or regulatory authority of BLM or SWRCB or requires the participants to obligate or expend funds in excess of available appropriations.
- B. The terms of this MOU may be renegotiated at any time at the initiative of one of the participants following at least 30 days notice to the other participant.
- C. This MOU may be cancelled at any time by one of the participants following at least 30 days notice to the other participant.

- D. Any participant may propose changes to the MOU during its term. Such changes will be in the form of an amendment and will become effective upon signature by all of the participants.
- E. The need for this MOU is expected to continue until the Water Quality Management Plan and Management Agency Agreement are in effect.
- F. This MOU will become effective upon the date of signature by both parties.

APPROVED:

Ed Hastey, California State Director Date
U.S. Bureau of Land Management

Eliseo M. Samaniego, Wice Chairman State Water Resources Control Board Januar, 27. 1993

RESOLUTION CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL VALLEY REGION

DELEGATION OF CERTAIN DUTIES AND POWERS OF THE BOARD TO ITS EXECUTIVE OFFICER PURSUANT TO SECTION 13223 CALIFORNIA WATER CODE

Resolution No: 70-119

Adopted: 1-22-70

WHEREAS, Section 13223 of the Porter-Cologne Water Quality Control Act provides that the Regional Board may delegate any of its powers and duties, with certain exceptions, to its Executive Officer, be it, therefore;

RESOLVED, that the California Regional Water Quality Control Board, Central Valley Region, does hereby delegate to its Executive Officer, under the general direction and control of the Board, all of the powers and duties of the Board under Division 7 of the California Water Code except those specified in Section 13223(a); and,

RESOLVED further. That the Executive Officer is authorized, and he is hereby directed to certify and submit copies of this resolution to such agencies and individuals as may have need therefor or as may request same; and

RESOLVED further, That any action that may be taken by the Regional Board pursuant to Division 7, California Water Code, includes such action by its Executive Officer pursuant to powers and duties delegated to him by the Board.

ATTEST:

Recutive Officer

25/1/1

Memorandum of Understanding

Between

Ukiah District U.S. Bureau of Land Management

and

California Regional Water Quality Control Board, Central Valley Region

This agreement expresses an understanding made this date between the Burcau of Land Management, Ukiah District, hereinafter referred to as the BLM, and the California Regional Water Quality Control Board, Central Valley Region, hereinafter referred to as the "Board."

Whereas:

The State Water Resources Control Board and Regional Water Quality Control Boards have overall responsibility for water quality protection and, as such, must ensure that land management activities do not cause adverse impacts on beneficial water uses, and

Whereas:

The BLM is responsible for management and protection of the public land,

Therefore:

This agreement is hereby entered into between the BLM and the Board in order to improve and facilitate future coordination between these agencies, thereby ensuring that environmental degradation resulting from actions taken on the BLM lands relating to locatable minerals, solid leasable minerals, and other leasable minerals including oil and gas and geothermal activities in California is minimized.

Agreement

I. Permitting:

- 1) BLM approval of plans of operations, permits, leases or other use authorization on the BLM lands that involve the potential for a discharge of hazardous wastes or substances 1/into the environment will be conditioned on the approval by the Board of waste discharge requirements for the proposed activity, when applicable prior to commencement of any discharge.
- 2) The Board agrees to notify the BLM of the carliest possible time of any new applications for waste discharge requirements or permits for activities located on BLM lands and to provide the BLM with the opportunity to recommend requirements necessary to ensure adequate bending for site allocate, neutralization and surface reclamation, i.e., removal and/or neutralization necessary for full cleanup.

- 3) BLM agrees to notify the Board of and to circulate documents prepared pursuant to the National Environmental Protection Act (NEPA) which involve the interests of the State, such as the issuance of waste discharge requirements. This action is consistent with the Memorandum of Understanding entered into between the State and BLM on November 23, 1983.
- 4) BLM will supply lists of mining operations that may involve the use of hazardous materials when 3809 "Notice" has been submitted for a plan of operations (operations under 5 acres), to ensure the Board is aware of all operations occurring on the BLM lands and to ensure that operators required to obtain waste discharge requirements have applied for them.

II. Compliance

- The Board will provide the BLM with a list identifying the operator/discharger and locations of all sites on BLM lands where hazardous materials are used or stored onsite that are currently regulated under waste discharge requirements.
- The Board will provide BLM with a list of indicators of potential waste discharge violations that BLM inspectors can use to assist in the identification of potential violations, i.e., lists of the types of indicators at a site that should be noted when performing an inspection.
- 3) The BLM will notify the Board of any potential violations of waste discharge requirements established by the Board on the BLM lands discovered during routine compliance checks or otherwise brought to the BLM's attention.
- 4) The Board will provide BLM with a summary of all compliance inspection reports issued for sites on the BLM lands and copies of those reports which document violation.
- 5) Upon the Board's determination that a violation exists, the Board will take appropriate action to enforce the stipulations found in waste discharge requirements with assistance from BLM.
- 6) BLM will assist the Board in obtaining the operator/discharger's compliance with State and Federal regulations during any cleamp/detoxification of a site.

III. Abandonment

For purposes of this agreement, "abandonment cases" means sites located on the BLM lands where the operator/discharger is unknown.

Prior to taking any formal enforcement action for violations of federal, state, or local requirements respecting whose discharges is abandoned sites located on the BLM lands, the Board will notify the BLM of the violation and provide the BLM with an opportunity to meet with the Board staff to explore methods of abouting the violation it is understood that this may not be possible in emergency situation it is jointly agreed that this MOU can be canceled with 30 days not and this agreement does not commit funds.

William Crooks

EXECUTIVE OFFICER

Central Valley RWQCB

9-30-85

Date

Van W. Manning

DISTRICT MANAGER

BLM. Ukiah District

Date

^{1/} As defined in Title 22 of the California Administrative (whe, blv) (Chapter 30.

Memorandum of Understanding

Between

Susanville District U.S. Bureau of Land Management

and

California Regional Water Quality Control Board, Central Valley Region

This agreement expresses an understanding made this date between the Eureau of Land Management, Susanville District, hereinafter referred to as the BLM, and the California Regional Water Quality Control Board, Central Valley Region, hereinafter referred to as the "Board."

Whereas:

The State Water Resources Control Board and Regional Water Quality Control Boards have overall responsibility for water quality protection and, as such, must ensure that land management activities do not cause adverse impacts on beneficial water uses, and

Whereas:

The BLM is responsible for management and protection of the public land.

Therefore:

This agreement is hereby entered into between the BLM and the Board in order to improve and facilitate future coordination between these agencies, thereby ensuring that environmental degradation resulting from actions taken on the BLM lands relating to locatable minerals, solid leasable minerals, and other leasable minerals including oil and gas and geothermal activities in California is minimized.

Agreement

I. Permitting:

- 1) BLM approval of plans of operations, permits, leases or other use authorization on the BLM lands that involve the potential for a discharge of hazardous wastes or substances. Into the environment will be conditioned on the approval by the Board of waste discharge requirements for the proposed activity, when applicable prior to commencement of any discharge.
- 2) The Board agrees to notify the BLM of the earliest possible time of any new applications for waste discharge requirements or permits for activities located on BLM lands and to provide the BLM with the apparaunity to recommend requirements necessary to record disquate booking for site closure, neutralization and extinct reclamation, i.e., removal and/or neutralization necessary for full cleanup.

- 3) BLM agrees to notify the Board of and to circulate documents prepared pursuant to the National Environmental Protection Act (NEPA) which involve the interests of the State, such as the issuance of waste discharge requirements. This action is consistent with the Memorandum of Understanding entered into between the State and BLM on November 23, 1983.
- 4) BLM will supply lists of mining operations that may involve the use of hazardous materials when 3809 "Notice" has been submitted for a plan of operations (operations under 5 acres), to ensure the Board is aware of all operations occurring on the BLM lands and to ensure that operators required to obtain waste discharge requirements have applied for them.

II. Compliance

- 1) The Board will provide the BLM with a list identifying the operator/discharger and locations of all sites on BLM lands where hazardous materials are used or stored onsite that are currently regulated under waste discharge requirements.
- 2) The Board will provide BLM with a list of indicators of potential waste discharge violations that BLM inspectors can use to assist in the identification of potential violations, i.e., lists of the types of indicators at a site that should be noted when performing an inspection.
- 3) The BLM will notify the Board of any potential violations of waste discharge requirements established by the Board on the BLM lands discovered during routine compliance checks or otherwise brought to the BLM's attention.
- 4) The Board will provide BLM with a summary of all compliance inspection reports issued for sites on the BLM lands and copies of these reports which document violation.
- 5) Upon the Board's determination that a violation exists, the Board will take appropriate action to enforce the stipulations found in waste discharge requirements with assistance from BLM.
- 6) BLM will assist the Board in obtaining the operator/discharger's compliance with State and Federal regulations during any cleanup/ detoxification of a site.

III. Abandonment

For purposes of this agreement, "abandonment cases" means sites located on the BLM lands where the operator/discharger is unknown.

Prior to taking any formal enforcement action for violations of federal, state, or local requirements respecting waste discharges on abandoned sites located on the BLM lands, the Board will notify the BLM of the violation and provide the BLM with an opportunity to meet with the Board staff to explore methods of abating the violation. It is understood that this may not be possible in emergency situations. It is jointly agreed that this MOU can be canceled with 30 days notice and this agreement does not commit funds.

William Crooks

EXECUTIVE OFFICER

Central Valley RWQCB

9-30-85

Date

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Rex Cleary

DISTRICT MANAGER

BLM, Susanville District

07/5/25-Date

 $[\]frac{1}{2}$ As defined in Title 22 of the California Administrative Code, Division 4, Chapter 30.

Memorandum of Understanding

Between

Bakersfield District
U.S. Bureau of Land Management

and

California Regional Water Quality Control Board, Central Valley Region

This agreement expresses an understanding made this date between the Bureau of Land Management, Bakersfield District, hereinafter referred to as the ELM, and the California Regional Water Quality Control Board. Central Valley Region, hereinafter referred to as the "Board."

Whereas:

The State Water Resources Control Board and Regional Water Quality Control Boards have overall responsibility for water quality protection and, as such, must ensure that land management activities do not cause adverse impacts on beneficial water uses, and

Whereas:

The BLM is responsible for management and protection of the public land,

Therefore:

This agreement is hereby entered into between the BLM and the Board in order to improve and facilitate future coordination between these agencies, thereby ensuring that environmental degradation resulting from actions taken on the BLM lands relating to locatable minerals, solid leasable minerals, and other leasable minerals including oil and gas and geothermal activities in California is minimized.

Agreement

I. Permitting:

- 1) BLM approval of plans of operations, permits, leases or other use authorization on the BLM lands that involve the potential for a discharge of hazardous wastes or substances into the environment will be conditioned on the approval by the Board of waste discharge requirements for the proposed activity, when applicable prior to commencement of any discharge.
- 2) The Board agrees to notify the BLM of the earliest possible time of any new applications for waste discharge requirements or permits for activities located on BLM lands and to provide the BLM with the opportunity to recommend requirements necessary to ensure adequate bonding for lite closure, neutralization and surface reclamation, i.e., removal and/or neutralization necessary for full cleanup.

- 3) BLM agrees to notify the Board of and to circulate documents prepared pursuant to the National Environmental Protection Act (NEPA) which involve the interests of the State, such as the issuance of waste discharge requirements. This action is consistent with the Memorandum of Understanding entered into between the State and BLM on November 23, 1983.
- 4) BLM will supply lists of mining operations that may involve the use of hazardous materials when 3809 "Notice" has been submitted for a plan of operations (operations under 5 acres), to ensure the Board is aware of all operations occurring on the BLM lands and to ensure that operators required to obtain waste discharge requirements have applied for them.

II. Compliance

- 1) The Board will provide the BLM with a list identifying the operator/discharger and locations of all sites on BLM lands where hazardous materials are used or stored onsite that are currently regulated under waste discharge requirements.
- 2) The Board will provide BLM with a list of indicators of potential waste discharge violations that BLN inspectors can use to assist in the identification of potential violations, i.e., lists of the types of indicators at a site that should be noted when performing an inspection.
- 3) The BLM will notify the Board of any potential violations of waste discharge requirements established by the Board on the BLM lands discovered during routine compliance checks or otherwise brought to the BLM's attention.
- 4) The Board will provide BLM with a summary of all compliance inspection reports issued for sites on the BLM lands and copies of those reports which document violation.
- 5) Upon the Board's determination that a violation exists, the Board will take appropriate action to enforce the stipulations found in waste discharge requirements with assistance from BLM.
- 6) BLM will assist the Board in obtaining the operator/discharger's compliance with State and Federal regulations Juring any cleanup/ detoxification of a site.

III. Abandonment

For purposes of this agreement, "abandonment cases" means sites located on the BLM lands where the operator/discharger is unknown.

Prior to taking any formal enforcement action for violations of federal, state, or local requirements respecting waste discharges on abandoned sites located on the BLM lands, the Board will notify the BLM of the violation and provide the BLM with an opportunity to meet with the Board staff to explore methods of abating the violation. It is understood that this may not be possible in emergency situations. It is jointly agreed that this MOU can be canceled with 30 days notice and this agreement does not commit funds.

William Crooks

EXECUTIVE OFFICER

Central Valley RWQCB

9-30-85

Date

Robert D. Rheiner, Jr.

DISTRICT MANAGER

BLM, Eakersfield District

1/4 As defined in Title 32 of the California Administrative Code, Division 4, Chapter 10.

1 UNITED STATES CEFARTMENT CHIT FIRMTE I IN BUREAU CO PROLIMATION 2 NEW MELCHES LINIT 3 CENTRAL MALLEY SHOUSELT, IAL 900-NOA 4 MEMORPHICION OF ACRETMENT FOR THE PROTECTION WAS ENUMACEMENT. 5 OF THE GIVER COMESTY OF THE STANISHADS MO HIS COADDIN RIVERS AS AFFECTED BY THE NEW MELTINES F DUECT 6 UNDER WATER RIGHT ATRUMPTOR OF THE UNITED STATES OF ANSWICK 7 AND BY MUNICIPAL AND INCUSTRINE LASTES R WEDEAS, THE INITED STATES INTENDS TO CONSTRUCT A DIM AND RESERVOIR IN 9 AND ACHION THE STANFSCADS RIVER AT A POINT UPSTREAM FROM CARDALE, STANISLAUS 10 12 COUNTY, CALIFORNIA, AND WILL UTILIZE SAID DAM AND PESERVOIR AND THEIR RELATED. 12 EVENS FOR THE EXPERSION AND STORAGE OF WATER OF THE STANISLAUS RIVER PRIMARELY FOR FLY OF CONTROL, COMESTIC, PARTICATION, RECREATION, MUNICIPAL AND INSUSTRIAL, 13 14 FISH CLITURE, AND WATER QUALITY CONTROL PURPOSES AND FOR THE GENERATION OF 15 MYDACELECTRIC ENERGY; SAID DAM TO DE KNOWN AS NEW MELONES DAM AND THE RESERVOIR 16 CREATCE I TEREBY TO BE KNOWN AS NEW MELONES RESERVOIRS AND 17 HERTAS, THE PRINTED STATES HAS FILED AN APPLICATION AND IS SEEKING TO 18 PERMIN A PERMIT AND LICENSE TO APPROPRIATE AND APPLY TO BENEFICIAL USE WATERS 19 OF THE STANISLAUS RIVER AND LITS TRIBUTARIES IN CONNECTION WITH THE OPERATION 20 OF THE NEW MELONES DAM AND PESERVOIR, SUCH APPLICATION BEING DESIGNATED IN THE 21 FILES OF THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD AS NUMBER 19304; 22 450 23 OFFICEAS, THE CENTRAL VALLEY REGIONAL ARTER TOALLTY CONTROL BOARD WITH RE-24 SPECT OF 175 PENISH HAS THE SUTY TO DETAIN COSMODENATED ACTION IN WATER GUALITY 25 COMPROSE AND IN THE ABATEMENT, PREVENTION AND CONFROL OF WATER POLICETION AND 56 99154546) 486 27 With Aby the PENEFORTAL DEES OF THE STANISLAUS AND SAN JOACHIN RIVERS 28 ARE SECTIONS OF A WATER CHALITY CONSTITIONS, AND THE PACTURE PROTONIZE THAT 29 WARE COLLEGE CONSTITUTE WAY BE PROTECTED AND ENHANCED BY FACILITIES CON-39 PARTITION OF A ATEN UNDER A PERMIT AND CHARAGE ISS OF ON APPOLICATION 19304; 7.2

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1	WHEREAS, AUTHORITY TO INVESTIGATE THE NEED FOR WATER QUALITY CONTROL IS						
2	CONTAINED IN THE FEDERAL MATER FOLLUTION CONTROL ACT AMENDMENTS OF 1961 (PUBLIC						
3	LAW 87-00, APPROVED JULY 20, 1961) WHICH PROTIDES IN PART						
4	"IN THE BURVEY OR PLANKING OF ANY RESERVOIRS OF THE CORPS OF ENGINEERS, SURFAU OF RECLAMATION, OR OTHER FEDERAL AGENCY.						
5	CONSIDERATION SHALL BE GIVEN TO INCLUSION OF STORAGE FOR REGULATION OF STREAMFLOW FOR THE PURPOSE OF WATER QUALITY						
6	CONTAGE "						
7	AND, IN ACCITION, THE 1962 FLOOD CONTROL ACT AUTHORIZING THE NEW MELONES						
8	PROJECT (PUBLIC LAW 87-874) PROVIDES						
9	" THAT THE SECRETARY OF THE ARMY GIVE CONSIDERATION DURING						
10	THE PRECONSTRUCTION PLANNING FOR THE NEW MELDIES PROJECT TO THE ADVISABILITY OF INCLUDING STORAGE FOR THE REQUESTION OF						
	STREAMFLOW FOR THE PURPOSE OF COMMSTREAM WATER ONALLY COM-						
11	THOL;"						
12	ANG						
13	WHEREAS, COOPERATIVE STUDIES BY THE PUBLIC HEALTH SERVICE, BUREAU OF						
14	RECLAMATION, AND CORPS OF ENGINEERS OF WATER CHALITY REQUIREMENTS IN STANISLAUS						
15	RIVER AND LOWER SAN JUNQUIN RIVER FOR IRRIGATION, FISH, AND OTHER PURPOSES WERE						
16	MADE DEMONSTRATING THE FEASIBILITY OF ADDING WATER QUALITY CONTROL AS A FUNCTION						
17	OF THE NEW MELDIES PROJECT; AND						
18	WHEREAS, THE CONSTRUCTION OF THE NEW MELONES DAM BY THE UNITED STATES						
19	AND OPERATION, AS PROVIDED IN THIS AGREEMENT, WILL ASSIST IN PROVIDING PRO-						
20	TEGTION AND ENHANCEMENT OF THE QUALITY OF THE MATERS OF THE STANISLAUS AND						
21	SAN JOAQUIN RIVERS AND IT IS MUTUALLY BENEFICIAL AND DESIRABLE THAT THE PARTIES						
22	FORMALIZE THEIR UNCERSTANDING BY THIS MEMORANDIAM OF OPERATING AGREEMENT:						
23	NOW, THEREFORE, THE United States acting By and through the Bureau of						
24	RECLAMATION, HEREINAFTER CALLED THE BUREAU, ITS SUCCESSORS AND ASSIGNS, AND						
25	THE STATE OF CALIFORNIA, ACTING BY AND THROUGH STS CENTRAL VALLEY REGIONAL						
26	WATER QUALITY CONTROL BOARD, HEREINAFTER CALLED THE REGIONAL BOARD, ITS SUCCES-						
27	SORS AND ABOUNCE, AND IN CONSIDERATION OF THE PREMISES CONTAINED AGRED AS						
83	FOLLOWS:						
29	1. THE BUREAU SHALL, IN ADDITION TO FISHERS REQUIREMENTS, RELEASE FROM						
30	MON MELONES THEY, FUR HATER QUALITY CONTAIN PURFOSES IN THE COMMSTREAM						
31	REACHES OF THE STANDARD DINER AND IN THE CAUSTRAL DISCOURSE						

1 CONFLUENCE OF THE TWO RIVERS, FLOWS NECESSARY TO MAINTAIN THE OB-JECTIVES CIPTED BELOW, BUT NOT IN CICIES OF 70,000 ACRE-FEET IN ANY 2 ONE YEAR. RELEASES OF WATER FOR QUALITY CONTROL PURPOSES SHALL BE 3 SCHEDULED TO MAINTRIN THE DEVICEN CEVEL AT OR ABOVE 5 MICELIGRAMS PER LITER (MG/L) IN THE STANIBLAUS RIVER AND THE LEVEL OF TOTAL DISSOLVED 5 BOLIDS NOT TO EXCEED A MEAN MONTHLY CONCENTRATION OF 500 MG/L IN THE SAN JOAQUEY RIVER IMMEDIATELY BELOW THE MOUTH OF THE STANISLAUS RIVER. PROVIDED: THAT IF HYDROLOGIC OR OTHER CONDITIONS PREVENT MAINTENANCE OF A 500 HG/L TOS LEVEL ON A MEAN MONTHLY BASIS CURING THE ENTIRE 10 YEAR IN THE SAN JOAGUIN RIVER IMMEDIATELY BELOW THE MOUTH OF THE STANISLAUS RIVER, OPERATIONAL RELEASES OF THE WATER QUALITY RESERT. 11 VATION WILL BE RESTRICTED TO THE IRRIGATION SEASON IN ACCORDANCE 12 WITH ERRIGATIONISTS' WEECS. 13 14 2. THE BUREAU MAKE ALL REASON, DIE EFFORTS TO PERFECT AND PROTECT 15 WATER RIGHTS MECESSARY FOR THE WATER QUALITY RESERVATION AND FOR 16

- WATER QUALITY OPERATIONAL PURPOSES.
- 3. THE REGIONAL BOARD SHALL MAKE ALL REASONABLE EFFORTS TO SUPPORT THE BUREAU TO OBTAIN AND PROTECT WATER RESMITS FOR THE WATER QUALITY RESER-VATION OF THIS PROJECT AND TO PROTECT THE WATER RELEASED FOR WATER QUALITY CONTROL PURPOSES.
- 4. SHOULD THE BUREAU ASSIGN, CONVEY OR STREET DISPOSE OF ANY INTEREST IN THIS PROJECT OR RIGHTS PUPSUANT TO APPLICATION 19304, SUCH DIS-POSITION SHALL EXPRESSLY BE MADE SUBJECT TO THE PROVISIONS OF THIS AGREEMENT.
- 5. THE SUREAU AND THE REGIONAL COARD FERENT AGREE THAT THE PROVISIONS OF THIS AGREEMENT SHOULD BE INCLUDED BY WAY OF REFERENCE OR OTHERWISE IN ANY PERMIT OF LICENSE BY THE STATE WATER RESCUREES CONTROL BOARD OF CALIFORNIA PURSUANT TO WATER RIGHT APPLICATION 19304.

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MEMORANDUM OF UNDERSTANDING BETWEEN THE CALIFORNIA DEPARTMENT OF FISH AND GAME, THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD AND MOSQUITO ABATEMENT AND VECTOR CONTROL DISTRICTS OF THE SOUTH SAN JOAQUIN VALLEY REGARDING VEGETATION MANAGEMENT IN WASTEWATER TREATMENT FACILITIES.

A meeting of representatives of the California Department of Fish and Game and the California Regional Water Quality Control Board, Central Valley Region and representatives from Mosquito Abatement and Vector Control Districts (Districts) from the Southern San Joaquin Valley Region was held on June 22, 1992 in the Department of Fish and Game office in Fresno, California. Also present at the though not in a participatory function, representatives from the United States Fish and Wildlife Service and the California Department of Health Services, Environmental Management Branch. The purpose of the meeting was to discuss concerns regarding the vegetation management operations Wastewater Treatment Facilities in the region.

During the course of the meeting several areas of agreement between the Department of Fish and Game, the Regional Water Quality Control Board and the Districts were reached. It is the intent of this Memorandum of Understanding to record and formalize these understandings.

Whereas, it is understood and agreed that:

- The Districts have the legal authority to abate mosquitoes and mosquito breeding sources pursuant to California Health and Safety Code Section 2270.
- The Department of Fish and Game has the legal authority for the protection of nesting birds, eggs and nests pursuant to California Fish and Game Code Section 3503.
- 3. The Regional Water Quality Control Board has the legal authority to order abatement of nuisances created by and to regulate discharges from wastewater treatment facilities, and may establish conditions in waste discharge requirements to prevent nuisance and pollution pursuant to California Water Code Sections 13304 and 13263.
- 4. Wastewater treatment facility operators are subject to waste discharge requirements and are responsible for the vegetation management operations at their respective facilities. Vegetation management includes the chemical or physical control of weeds in and around water impoundments.

- Vegetation associated with impounded water promotes mosquito breeding and the production of mosquitoes constitutes a public health nuisance.
- 6. Effective, on site, vegetation control by operators of wastewater treatment facilities is essential for the reduction of mosquito breeding in water impoundments and to maintain accessibility to the impoundments for inspection and mosquito control activities.
- Birds, including waterfowl, shorebirds and passerines, utilize wastewater treatment facilities during the nesting season that occurs from April 1 through June 30.
- Weed control operations, during the nesting season, are potentially detrimental and may result in the destruction of nesting birds, nests and eggs.
- 9. The diverse authorities of the various regulatory agencies has led to confusion on the part of wastewater treatment facility operators with regard to weed control operations.

Therefore, it is understood and agreed that:

- The District will act as the lead agency in determining the adequacy of vegetation management operations in abating mosquito breeding sources.
- On site, vegetative management operations at wastewater treatment facilities should include the maintenance of weed-free embankments, water edges and peripheral access roads, and the elimination of emergent and floating vegetation in all water impoundments.
- 3. Vegetation management operations in areas that attract nesting birds at wastewater treatment facilities should be carried out either before or after, but not during, the April 1 to June 30 bird nesting season.
- 4. In the event the District determines the existence of a potential public health nuisance from mosquito breeding, weed control may be conducted during the nesting season; provided that wastewater treatment facility personnel first survey the area and flag all existing nests and assure that these nests and birds are avoided during the weed control activities. Prior to conducting the survey, the Department of Fish and Game must be notified and given the opportunity to advise or assist facility personnel.

- 5. Should a public health threat create a situation where the destruction of nests and eggs due to weed control activity is unavoidable, the District will first contact the Department of Fish and Game and the U.S. Fish and Wildlife Service to request the issuance of an incidental take permit.
- 6. Areas away from impounded water may be left in a vegetated (weedy) state to attract nesting birds and to offer nesting habitat throughout the nesting season. These areas cannot be flooded unless vegetation is removed and vegetation cannot be removed during the nesting season.

These understandings were reached and this memorandum is signed in a spirit of cooperation among the signatory agencies. It is signed in the belief that a healthy environment and the protection of natural resources and the concern for and protection of the public health are compatible issues.

These understandings may be amended or terminated at any time provided that the Department of Fish and Game, the Regional Water Quality Control Board and the Districts agree in writing.

Concurrence:	
By Henry D. Noka	Dated 3/16/23
CALIFORNIA DEPARTMENT OF	/ /
FISH AND GAME	
By (1) With Court QUALITY	Dated 2-24-93
CONTROL BOARD, CENTRAL VALLEY REGION	
CONTROL BOARD, CLITERED VALUET REGION	•
By Kach Den	Dated 3-25-93
COALINGA-HURON MOSQUITO ABATEMENT	
DISTRICT ,	
By Stere Mulho:	Dated <u>9</u> .25-93
CONSOLIDATED MOSQUITO ABATEMENT	
DISTRICT	
By Kalph / 116	Dated 2.24-93
DELANO MOSQUITO ABATEMENT DISTRICT	
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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SENTRAL VALLEY REGION

RESOLUTION NO. 89-247

CONDITIONAL WAIVER OF WASTE DISCHARGE REQUIREMENTS AT RETAIL FERTILIZER FACILITIES

WHEREAS, Section I3269 of the Porter-Cologne Water Quality Control Act authorizes the Regional Board to waive waste discharge requirements for a specific discharge or a specific type of discharger; and

WHEREAS, there are approximately 195 retail fertilizer facilities in the Central Valley Region; only 11 of which are covered by waste discharge requirements; and

WHEREAS, all retail fertilizer facilities generate waste associated with the mixing and/or transport and/or application of fertilizer materials; and,

WHEREAS, the waste generated has the potential to affect water quality if improperly disposed of; and

WHEREAS, the California Fertilizer Association, in cooperation with Regional Board staff, has developed a set of management practices to protect water quality at retail fertilizer facilities; and

WHEREAS, the fertilizer industry has indicated a willingness to implement these management practices at retail fertilizer facilities; and

WHEREAS, implementation of these management practices will ensure the future protection of water quality, will limit the need for waste discharge requirements, and will reduce the amount of Regional Board staff time needed to oversee these facilities; and

WHEREAS, the implementation of these management practices is to the benefit of the public and the waiver of individual waste discharge requirements is not against the public interest; and

WHEREAS, the Regional Board has assumed lead agency role for this project and has conducted an Initial Study in accordance with Title 14. California Code of Regulations, Section 15603; and

WHEREAS, the Initial Study concluded that the project as proposed would not have a significant effect on the environment and that a Negative Declaration should be prepared; and

Conditions for Walver of Waste Discharge Requirements at Retail Fertilizer Facilities were transmitted to all agencies, and persons known to be interested in this matter, and to the State Clearinghouse; and

WHEREAS, no comments were received from any party receiving the Initial Study and proposed Negative Declaration; and

WHEREAS, the Board considered all testimony and evidence at a public hearing on 8 December 1989 in Sacramento, California, and good cause was found to approve the Initial Study and adopt a Negative Declaration; and

WHEREAS, in accordance with Title 14, California Code of Regulations, Section 15074, a Negative Declaration has been adopted for this project; Therefore, be it

RESOLVED, that the Board hereby waives waste discharge requirements for retail fertilizer facilities. This waiver shall only apply to those facilities that comply with the attached *Conditions for Waiver of Waste Discharge Requirements at Retail Fertilizer Facilities*; and be it further

RESOLVED, that this action waiving waste discharge requirements is conditional and may be terminated for any specific discharger at any time.

I. WILLIAM H. CROOKS. Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of a Resolution adopted by the California Regional Water Quality Control Board, Central Valley Region, on 8 December 1989.

WILLIAM H. CROOKS, Executive Officer

Attachment

ATTACHMENT I

CONDITIONS FOR WAIVER OF WASTE DISCHARGE REQUIREMENTS AT RETAIL FERTILIZER FACILITIES

The following panagement practices have been recommended by the California Fertilizer Association and the Regional Water Quality Control Board as methods to protect water quality at retail fertilizer facilities. The Regional Board waived waste discharge requirements for retail fertilizer facilities, conditioned on their compliance with these management practices. A Time Schedule for implementing these management practices is given in Section 2. If the time schedule and the Management Practices are not followed by an individual facility, waste discharge requirements will be issued for that facility.

.. MANAGEMENT PRACTICES

-. Office_Buildings

- 1. Good housekeeping practices shall be implemented which will prevent contamination of groundwater, surface water, and rain runoff.
- 2. If conditions are such that the office building and associated parking area are separated from the rest of the facility, signs should be posted indicating "Office Parking Only." By restricting delivery, vendor and application equipment from these areas, the potential for accidental contamination will be eliminated.
- 3. Roof and parking lot runoff should be controlled to the extent that they are prevented from intercepting potential contamination areas. Collection of this water will be necessary if contamination occurs.
- Berming, rain gutters. and/or other control devices shall be used where necessary.

Squipment Storage Area

- l. Good housekeeping practices and organizational practices shall be implemented which will prevent contamination of groundwater, surface water, and rain runoff.
- 2. Equipment, known or suspected of being in disrepair, shall not be stored in these areas unless completely empty of commercial grade fertilizer material.
- in laurament that tentains cospail evidence of eventricing, or visual evidence of exterior residues, shall be cleaned by minsing in the field on at a procenty designed wash facility prior to storing in this area.

C. Bulk Warehousing and Storage of Fertilizer Materials

- Good housekeeping practices shall be implemented which will prevent contamination of groundwater, surface water, and rain runoff.
 - 2. If a fertilizer material is susceptible to wind suspension, it should be placed away from the open areas of the warehouse in order to prevent airborne contamination of soil, surface water, groundwater, or rain runoff.
 - 3. Provided good housekeeping practices are sufficient, collection of surface runoff will not be necessary. If conditions are such that good housekeeping practices are not sufficient, surface runoff shall be collected from all contaminated areas associated with the warehouse and overhead bins, and transferred to an approved storage facility for dilute fertilizer solutions.
- 4. Berms, sloping rain gutters, and/or other water control devices shall be used where necessary.
- 5. All spilled dry material shall be collected immediately and handled in an appropriate manner.

D. Material Transfer Points

- 1. Good housekeeping practices shall be implemented which will prevent contamination of groundwater, surface water, and rain runoff.
- 2. Transfer systems shall be installed which eliminate unnecessary spillage. Hoses should not be drained in these areas unless facilities have been designated for this practice.
- 3. Provided good housekeeping practices are sufficient, collection of surface runoff will not be necessary. If conditions are such that good housekeeping practices are not sufficient, surface runoff shall be collected from this area, and transferred to an approved storage facility for dilute fertilizer solutions.
- 4. Berms, sloping rain gutters, and/or other water control devices shall be used where necessary.

F. Blending and Mixing Areas

- 1. Good housekeeping practices shall be implemented which will prevent contamination of groundwater, surface water, and rain runoff.
- Bust and splash control devices shall be used where necessary.

- 3. Acceptable spill containment shall be provided in all newly constructed or renovated blending and mixing areas. The spill containment shall be capable of containing the maximum anticipated spill in accordance with operating conditions and practices.
- 4. Provided good housekeeping practices are sufficient, collection of surface runoff will not be necessary. If conditions are such that good housekeeping practices are not sufficient, surface runoff shall be collected from the blending and mixing area, and transferred to an approved storage facility for dilute fertilizer solutions.
- Berms, below-grade construction, sumps, and/or other water control devices shall be used where necessary.
- Liquid contained in an approved storage facility for dilute fertilizer solutions can be used in the blending and mixing operations.

F. Fertilizer Wash and Rinse Facility

- Rinse water from facility equipment and application equipment shall be collected and transferred to an approved storage facility for dilute fertilizer solutions.
- 2. Contaminated surface runoff from the rinse pad shall be collected and transferred to an approved storage facility for dilute fertilizer solutions.
- 3. Berms, sloping, sumps, and other water control devices shall be used where necessary.
- 4. Solids from central collection points or from settling devices can be disposed of on agricultural land, provided that good agronomic practices are used.
- 5. Identification of the type of products that can be washed and rinsed at the wash/rinse facility shall be posted in a conspicuous area and enforced.

3. Janx Farms and Other Liquid Storage Areas

- l. Good housekeeping practices shall be implemented which will prevent contamination of groundwater, surface water, and rain runoff.
- 2. Transfer systems shall be constructed that eliminate spiilage. Hoses and connections chail not be drained into these areas.
- Acceptable spill containment shall be provided for all new tank farms or renovated tank farms.

- 4. Pipes, connections, pumps, and/or tanks in disrepair shall not be used until the situation is rectified.
- 4. Provided good housekeeping practices are sufficient, collection of surface runoff will not be necessary. If conditions are such that good housekeeping practices are not sufficient, surface runoff shall be collected from all contaminated areas associated with the tank farm, and transferred to an approved storage facility for dilute fertilizer solutions.
- 5. Berms, sloping, and other water control devices shall be used where necessary.

3. <u>Cilute Fertilizer Solutions Containment</u>

- Tanks and/or above ground containment shall be used to contain all liquids classified as dilute fertilizer solutions.
- Adequate capacity shall be provided such that the system is operational at all times, and has the capability of containing all contaminated surface runoff.
- 3. Adequate storage shall be provided in the design of a tank or above ground containment, such that containment and/or evaporation of all collected dilute fertilizer solutions is available at all times, unless alternative methods of use are available (i.e. agronomical use on agricultural land, use in processes, or disposal to approved discharge facilities).
- 4. Access to the tank and/or above ground containment shall be restricted to qualified personnel only.

<u>i. Pesticide Use</u>

Note: These conditions implement existing laws and regulations, and do not impose any new restrictions.

- There shall be no discharge of pesticide rinse water to any surface water, pround water, or hybsurface disposal cystem.
- I. There shall be no disposal or storage of a) pesticide rinse waters, b) unrinsed pesticide containers, or c) ineffectively rinsed pesticide containers, if there is the potential for residual pesticides to affect water quality via percolation, runoff, or soil erosion.
- 3. Factifities used to generate, collect, on store pesticide ninse waters shall not allow percolation to underlying soils in pround water.

- 4. Disposal or treatment areas for pesticide rinse water, pesticide containers, and wastes from spills or leaks shall comply with *Discharges* of Waste to Land, Subchapter 15, Chapter 3, Title 23, California Code of Regulations. In particular, there is no on-site treatment or disposal of 'hazardous waste' without a permit from the California Department of Health
- 5. Waste management facilities shall be designed and managed to prevent nuisances and to provide for controlling access to the facilities.
- 6. If wastewater containing pesticides is applied to fields, such application must be in compliance with regulations contained in Title 3. Food and Agriculture, California Code of Regulations.
- 7. A report shall be submitted to the Regional Board addressing the containment and disposal of the following wastes: pesticide rinse waters, pesticide containers, contaminated soils resulting from leaks or spills, and wastes from any on-site rinse water recycling system. (See 1 January i991 report, below).

2. TIME SCHEDULE FOR IMPLEMENTATION OF MANAGEMENT PRACTICES

In order to implement the above management practices, the following time schedule snail be utilized. Considerations of exemptions for specific facilities will be made by the Regional Board on a case-by-case basis.

3<u>y l June 1990</u>

- designate office parking only area (A2)'
- clean equipment containing fertilizer residues before parking in equipment
- move fertilizer that may become airborne (C2)
- identify products that can be washed at the washrack, post a sign (F5)
- broken pipes, connections, pumps, and tanks can not be used until fixed (G4)
- broken application equipment may not be parked in equipment area unless empty
- restrict access to dilute fertilizer storage area to qualified personnel (H4)
- collect all dry material spilled in the bulk warehouse (C6) - comply with provisions 1-6 of the Pesticide section (i)

numbers in carentheses refer to the specific items in Section 1 (Management

<u>3v l January 1991</u>

- submit a report to the RWQCB detailing I) the facility's 'good housekeeping' plans (Al. Bl. Cl. C3, D3, E4, G1, G5); 2) pesticide use/disposal practices (1.7); and a listing of the dates that facility modifications will be in place

<u>3v l January</u> 1992

- control roof and office parking lot runoff (A3)

- control dust in bulk warehouse (C4)

- install transfer systems which eliminate spillage (D2, G2)
- control dust and splash in blending areas (E2)

- dispose of any solids onto agricultural lands (F4)

<u>By 1 January 1994</u>

- collect contaminated surface runoff from the bulk warehouse, material transfer points, blending/mixing areas, and tank farms, and transfer to an approved storage facility (C3, D3, E4, G4)

- construct spill containment structures for new or renovated blending and tank

farms (E3, G3)

- collect rinsewater and transfer to an approved facility (F1)

- collect contaminated surface runoff from the wash pad (F2)

- construct a dilute fertilizer solutions containment system (H1, H2, H3)

Amended 12/8/89

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL VALLEY REGION

RESOLUTION NO. 89-246

APPROVING THE INITIAL STUDY AND ADOPTING A NEGATIVE DECLARATION FOR THE CONDITIONAL WAIVER OF WASTE DISCHARGE REQUIREMENTS AT RETAIL FERTILIZER FACILITIES

WHEREAS, Section 13269 of the Porter-Cologne Water Quality Control Act authorizes the Regional Board to waive waste discharge requirements for a specific discharge or a specific type of discharger; and

WHEREAS, there are approximately 195 retail fertilizer facilities in the Central Valley Region: only II of which are covered by waste discharge requirements; and

WHEREAS, all retail fertilizer facilities generate waste associated with the mixing and/or transport and/or application of fertilizer materials; and,

WHEREAS, the waste generated has the potential to affect water quality if improperly disposed of; and

WHEREAS, the California Fertilizer Association, in cooperation with Regional Board staff, has developed a set of management practices to protect water quality at retail fertilizer facilities; and

WHEREAS, the fertilizer industry has indicated a willingness to implement these management practices at retail fertilizer facilities; and

WHEREAS, implementation of these management practices will ensure the future protection of water quality, will limit the need for waste discharge requirements, and will reduce the amount of Regional Board staff time needed to oversee these facilities; and

WHEREAS, the implementation of these management practices is to the benefit of the public and the waiver of individual waste discharge requirements is not against the public interest; and

WHEREAS, the Regional Board has assumed lead agency role for this project and has conducted an Initial Study in accordance with Title 14, California Code of Regulations, Section 15603; and

not have a significant effect on the environment and that a Negative Declaration nould be prepared; and

WHEREAS, copies of the Initial Study, Negative Declaration, and attached Conditions for Waiver of Waste Discharge Requirements at Retail Fertilizer Facilities were transmitted to all agencies, and persons known to be interested in this matter, and to the State Clearinghouse; and

WHEREAS, no comments were received during the thirty day public comment period from any party receiving the Initial Study and proposed Megative Declaration; and

WHEREAS, the Board considered all testimony and evidence at a public hearing on 8 December 1989 in Sacramento, California, and good cause was found to approve the Initial Study and adopt a Negative Declaration: Therefore, be it

RESOLVED, that the California Regional Water Quality Control Board, Central Valley Region, approves the Initial Study and adopts a Negative Declaraton for conditional waiver of waste discharge requirements at retail fertilizer facilities.

!. WILLIAM H. CROOKS, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of a Resolution adopted by the California Regional Water Quality Control Board, Central Valley Region, on 8 December 1989.

WILLIAM H. CROOKS, Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL VALLEY REGION

RESOLUTION 90-034

CONDITIONAL WAIVER OF WASTE DISCHARGE REQUIREMENTS AT PESTICIDE APPLICATOR FACILITIES

WHEREAS, Section 13269 of the Porter-Cologne Water Quality Control Act states that the Regional Board may waive waste discharge requirements for a specific type of discharge; and

WHEREAS, there are several hundred pesticide applicators in the Central Valley Region who have the potential to discharge waste which could be regulated by the Regional Board; and

WHEREAS, pesticide waste management practices that comply with existing laws and regulations and will protect water quality have been described in a Regional Board document "Conditions for Waiver of Waste Discharge Requirements at Pesticide Applicator Facilities" a copy of which is incorporated in this Resolution as Attachment 1: and

WHEREAS, staff have developed a regulatory program for pesticide applicators so that the waste management practices that they utilize can be reviewed; and

WHEREAS, it is anticipated that reviews will reveal that waste management practices at many of these facilities <u>do not</u> pose a threat to water quality; and

WHEREAS, only a few of the facilities operated by pesticide applicators are currently under waste discharge requirements; and

WHEREAS, it is to the benefit of the public that waste discharge requirements be waived at pesticide applicator facilities that do not pose a threat to water quality and such waiver is not against the public interest; and

WHEREAS. Such a warver program is a "project" under the California Environmental Quality Act and the Regional Board has assumed lead agency role for the project and has conducted an initial Study in accordance with Title 14, California Code of Regulations, Section 18603; and

WHEREAS, the initial Study concluded that the project as proposed would not have a significant effect on the environment and that a Negative Declaration about decrepaned; and

WHEREAS, copies of the Initial Study, proposed Negative Declaration, and the 'Conditions for Jaiver of Waste Discharge Requirements at Pesticide Applicator Facilities' were transmitted to all agencies and persons known to be interested in this matter and to the State Clearinghouse; and

WHEREAS, no illowerts were deceived surring the thirty-day public comment decide from any part, deceiving the [citial Study, proposed Negative Declaration.

RESOLUTION 90-034

and the waiver conditions: and

WHEREAS, the Regional Board considered all testimony and evidence at a public hearing on 26 January 1990 in Sacramento. California, and good cause was found to approve the Initial Study and adopt a Negative Declaration for conditional waiver of waste discharge requirements at pesticide applicator facilities; and

WHEREAS, in accordance with Title I4, California Code of Regulations, Section 15074, a Negative Declaration has been adopted for this project; Therefore, be it

RESOLVED, that the Board hereby waives waste discharge requirements for pesticide applicator facilities which meet the 'Conditions for Waiver of Waste Discharge Requirements at Pesticide Applicator Facilities'. This waiver is conditional and may be revoked at any time.

I, WILLIAM H. CROOKS, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of a Resolution adopted by the California Regional Water Quality Control Board, Central Valley Region, on 26 January 1990.

WILLIAM H. CROOKS, Executive Officer

Ammended

ATTACHMENT 1 / RESOLUTION 90-034

CONDITIONS FOR WAIVER OF WASTE DISCHARGE REQUIREMENTS AT PESTICIDE APPLICATOR FACILITIES

Purpose Of This Document

Pesticide application using aerial or ground equipment may result in production of wastes which can affect water quality. The subject wastes consist of pesticide rinse waters, unrinsed or ineffectively rinsed pesticide containers, leaks, and accidental spills. Residual pesticides from treated fields are not addressed by this document.

This document describes waste management practices which, if utilized by pesticide applicators, will not result in an adverse impact on surface or ground water. Those applicators who adopt the practices presented in this document will qualify for a waiver of waste discharge requirements. The waiver will be issued at the discretion of the Regional Board and may be revoked by the Board at any time.

Acceptable Waste Management Practices

- There is no discharge of pesticide rinse water to any surface water, ground water, or subsurface disposal system.
- There is no disposal or storage of pesticide rinse waters or unrinsed or ineffectively rinsed pesticide containers where residual pesticides can affect water quality via percolation, runoff, or soil erosion.
- Facilities used to generate, collect, or store pesticide rinse waters do not allow percolation to underlying soils or ground water.
- 4. Disposal or treatment areas for pesticide rinse waters, pesticide containers, and wastes from spills or leaks comply with Subchapter 15. Thapter 3. Title 23. California Code of Regulations (CCR). In particular, there is no on-site treatment or disposal of 'hazardous waste' without a permit from the California Department of Health Services (DHS) if such a permit is required by law or regulation.
- 5. Waste management facilities are designed and managed to prevent nuisances and to provide for controlling access to the facilities.
- If wastewater containing pesticides is applied to fields, such application must be in compliance with regulations contained in Title 3, 708.

<u>Pedicha: Board's Review Program</u>

All desticide applicators are expected to manage their waste in compliance with State laws and regulations. Upon order by the Regional Board, a Certified Commercial Applicator or other desticide applicator shall prepare a technical report for his facility. The report thall be submitted to the Pedighal Foard con request and unail sudmess containment and disposal of the following wastes:

- Pesticide rinse waters.
- 2. Pesticide containers.
- Contaminated materials resulting from leaks or spills.
- Wastes from on-site rinse water recycling systems.

Based on a review of the technical report, Board staff shall determine if:

- A. Investigation by staff demonstrates that there is no expected impact on water quality from the proposed waste management practices and that the pesticide applicator facilities meet the conditions for waiver of waste discharge requirements, or
- B. A monitoring program should be implemented to develop additional information on the impacts from on-site waste discharges, or
- C. The conditions for waiver of waste discharge requirements have not been met and, consequently, a Report of Waste Discharge should be requested and waste discharge requirements prepared.

If staff makes the finding in A above, a waiver of waste discharge requirements shall apply pursuant to Board Resolution 90-034 and shall apply only for the practices described in the technical report. Staff shall instruct the operator to file an updated technical report if there is any substantial change in waste management practices.

If staff makes the finding in B above, the Regional Board may choose to waive waste discharge requirements for that specific operator pending review of monitoring reports. The waiver shall be at the discretion of the Board.

<u>Definition of Terms Used in This Document</u>

some of the terms used in this document are defined in the CCR, and appropriate citations are given below: $\frac{1}{2} \left(\frac{1}{2} + \frac{1}{$

- 1. 'Centified Commercial Applicator' means:
 - (a) a current authorized agent on an Agricultural Pest Control Operator license (ssued by the director of the Department of Food and Agriculture (director);
 - (b) a pilot holding a valid Journeyman certificate issued by the director:
 - (a) a person holding a Certified Technician certificate issued by the Sector Biology and Control Section of the Department of Health Services:

- (d) a person holding a valid Structural Pest Control Operator or Field Representative license issued by the Structural Pest Control Board of the Department of Consumer Affairs; and
- (e) a person holding a valid Certified Commercial Applicator certificate issued by the director. (Section 6000.2, Title 3, CCR.)
- "Designated waste" is defined in Section 2522 of Title 23, CCR.
- 3. "Field" means any area (including a greenhouse) upon which one or more crops are commercially grown. (Section 6000.4. Title 3. CCR.)
- 4. "Hazardous waste" means waste that is hazardous pursuant to Section 66693 et seq., Title 22, CCR.
- 'Ineffectively rinsed pesticide container" means a container which has residual pesticides at levels that are hazardous or designated waste.
- "Pesticide rinse water" is wastewater from washing the interior (tanks, lines, spray nozzles, etc.) or exterior of pesticide application equipment.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL VALLEY REGION

RESOLUTION NO. 83-105

ADOPTION OF AN AMENDMENT TO PART I OF THE WATER QUALITY CONTROL PLANS FOR THE SACRAMENTO RIVER (5A), SACRAMENTO-SAN JOAQUIN DELTA (5B), SAN JOAQUIN-RIVER (5C), AND TULARE LAKE (5D) BASINS
FOR

LAND DISPOSAL OF STILLAGE WASTE FROM WINERIES

WHEREAS, under Section 13240 of the Porter-Cologne Water Quality Control Act and Section 303(e) of the Federal Clean Water Act amendments of 1972 (PL 92-500), the California Regional Water Quality Control Board, Central Valley Region (hereafter Board), adopted Water Quality Control Plans for Basins 5A, 5B, 5C, and 5D on 25 July 1975; and

WHEREAS, the potential exists for disposal of stillage waste by land application to adversely affect water quality and create nuisance conditions; and

WHEREAS, a study was completed for The Wine Institute by Metcalf and Eddy Engineers in February of 1980, entitled, "Land Application of Stillage Waste: Odor Control and Environmental Effects": and

WHEREAS, the Board has developed an amendment to Part I of the Water Quality Control Plans for Basins 5A, 5B, 5C, and 5D regarding disposal of winery stillage waste by land application; and

WHEREAS, the amendment prescribes guidelines to minimize the potential for adverse water quality effects and nuisance conditions but does not preclude the establishment of more stringent requirements by local agencies or the Roard for control of water quality concerns associated with land disposal of stillage waste; and

WHEREAS, the basin planning process has been certified as a "functional equivalent" to the California Environmental Quality Act requirements for preparing environmental documents and is therefore exempt from those requirements (Public Resources Code Section 21000, et seq.) in accordance with Section 15108 of the State EIR guidelines (California Administrative Code, Title 14, Division 7. Chapter 3); and

WHEREAS, on 12 August 1983, the Board conducted a public hearing after notice to all interested persons, in accordance with PL 92-500 and the California Water Code, and has considered the evidence regarding the amendment introduced at that hearing and submitted to the Board prior to the hearing: Therefore be it

RESOLVED, That the Board adopts the above described amendment to the Water Quality Control Plans for Basins SA, 58, 50, and 50, and be it further

RESOLUTION NO. 83-105
ADOPTION OF AN AMENDMENT TO PART I OF THE WATER
QUALITY CONTROL PLANS FOR THE SACRAMENTO RIVER (5A),
SACRAMENTO-SAN JOAQUIN DELTA (5B), SAN JOAQUIN
RIVER (5C), AND TULARE LAKE (5D) BASINS FOR LAND
DISPOSAL OF STILLAGE WASTE FROM WINERIES

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RESOLVED. That the Executive Officer is instructed to transmit the Water Quality Control Plan amendment to the State Water Resources Control Board for its consideration and approval.

I, WILLIAM H. CROOKS, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of a Resolution adopted by the California Regional Water Quality Control Board, Central Valley Region, on I2 August 1983.

WILLIAM H. CROOKS, Executive Officer

AMENDMENT TO WATER QUALITY CONTROL PLAN

Land Disposal of Stillage Waste from Wineries

Problem Statement

A substantial number of wineries operate throughout the Central Valley. Many of these wineries operate stills. Wineries with stills produce substantial quantities of stillage waste which is high in concentrations of BOD and nitrogen. The stillage is normally discharged directly to land without any prior treatment. There is a potential for the waste to affect water quality and to create nuisance conditions.

A study has been conducted to develop recommendations for minimizing water quality effects and nuisance conditions resulting from land application of stillage waste. There is a need to implement guidelines for land disposal of stillage waste that can be used by the industry as a general indication of minimum disposal practices when accompanied with suitable soil, weather, ground water and other conditions affecting the discharge.

The guidelines address the unique problems associated with the management of the land disposal of stillage wastes. They will be utilized in the evaluation of the adequacy of technical reports submitted for the development of waste discharge requirements. Portions of the criteria contained herein may be included as part of the waste discharge requirements on a case-by-case basis depending on the site conditions.

Guidelines for Land Disposal of Stillage Waste from Wineries

The following guidelines will be applied for the preservation and enhancement of state waters for all present and anticipated beneficial uses, prevention of water pollution, health hazards and nuisance conditions. The guidelines may not be applicable in cases where local soil, ground water, weather or other conditions are not compatible with the stillage to be disposed. These guidelines prescribe criteria for disposal of stillage waste from wineries and do not preclude the establishment of more stringent requirements by local agencies or the Board.

The Board has determined that the following guidelines should be followed by wineries which practice land disposal of stillage without any prior treatment of the waste.

Rapid Infiltration Method

I. <u>Disposal Site Requirements</u>

- The land used for disposal should be as remote from habitation as possible.
- The soils should be capable of infiltrating 3 to 4 inches of stillage in 24 hours or less.

^{1/ &}quot;Land Application of Stillage Waste: Odor Control and Environmental Effects" prepared for The Wine Institute, by Metcalf and Eddy, Engineers, Palo Alto, California, February 1980.

- Soil permeability should be greater than 2 inches per hour for the entire profile.
- There should be no unripped hardpan within the top 10 feet of the soil profile.
- Soil depth should be 10 feet or greater.
- 6. Depth to ground water should be 10 feet or greater.

II. Operational Procedures

- Cooling water and any other wastewater with low COD concentrations should be separated from the stillage before land application.
- Stillage waste should be spread on land between long, narrow, level checks. The surface should be leveled uniformly within 0.1 foot per 100 feet, without potholes.
- At the inlet of the checks, the flow should be distributed using splash plates or other devices to prevent deep holes from forming.
- 4. The depth of each stillage application should not exceed the following:

Period of Year	Depth of Stillage Application (inches)
Aug 1 to Oct 1	3,7
Oct 1 to Dec 1	3
Dec 1 to May 1	2.5

- Standing stillage should not be present 24 hours after application has ceased.
- 6. After stillage waste has been applied to an area, the area should be allowed to dry for at least the following period before re-application of waste:

<u>Period of Year</u>	Drying Time (days)
Aug 1 to Oct 1	6
Oct 1 to Dec 1	9
Dec 1 to May 1	13

- After stillage has been applied to an area, if leathers have not been removed, the area should be raked or rototilled before re-application of stillage.
- Loading rates and drying times for stillage waste from raisins or pomace should follow the criteria for December 1 to May 1 operations.

9. Land area used for disposal should equal or exceed the following:

Period of Year	Land Area!/ (acres per 100,000 gpd of stillage waste)
Aug 1 to Oct 1	7
Oct 1 to Dec 1	12.3
Dec 1 to May 1	20.6

- These land areas are directly related to the drying time stated in No. 6 above. Complete infiltration recovery to the original values may not be obtained by these relatively short resting cycles. At some application sites, the infiltration rate constantly decreases as the application season progresses. A decrease in infiltration of about 75% can be expected with only three applications. Therefore the number of stillage applications at a specific site should be kept to a minimum. Repeated application of stillage with minimum drying times may require larger land areas.
- 10. During periods when it is not used for stillage disposal, the disposal area should be planted with crops to assist in the removal of residual nitrogen concentrations from the soil if necessary.

Slow Rate Irrigation Method

Most existing stillage disposal sites are located on relatively permeable soils. Where the available land for application of stillage is such that the limiting permeability is slow to moderately slow, the use of slow rate irrigation may be used as an alternative to rapid infiltration. The application depends on the expected evaporation and infiltration and can range from less than 0.5 to 1.5 inches (13,600 to 40,000 gal/acre). Resting periods should range from 18 to 20 days or more. The resultant average loading rates and land areas are shown in Table 1. All other Disposal Site Requirements and Operation Procedures for the rapid infiltration method also apply to the slow rate irrigation method.

TABLE 1. SLOW RATE IRRIGATION AREA REQUIREMENTS

	Soil Permeability, Slow	Soil Permeability, Moderately Slow
Limiting soil permeability, in/hr	<pre>0.06-0.2 (clay loam)</pre>	0.2-0.6 (clay loam or silt loam)
Infiltration capacity, in/day	0.5	1.0
Resting period, days	20	13
Average loading rate, gal/acre/day	670	1.940
Area required per 100,000 gal/day of stillage, acres	150	52

Sasin Plan Amenament and Action Plan for Erosion/Sedimentation*

<u>Proplem Statement</u>

Accelerated erosion from man's disturbance of soil resources (construction, agricultural operations, highway construction, etc.) contributes to turbidity and sedimentation in basin streams. For example, the US Army Corps of Engineers nemoves over 10 million cubic yards of sediment yearly from the Sacramento River.

There exists a tremendous push by the urban population for construction of primary residences and second-homes (with support activities) in the rural lands of the Central Vailey. Exposure of soil during construction of house pads and access roads, and the subsequent earth disturning cuts and fills can accelerate erosion many times above that which occurs in undeveloped watershed lands.

Agricultural activities can cause a long-term persistent erosion/sedimentation problem. Conversion of steeper sicoing lands for agricultural production is occurring as new water sources become available and flatter land becomes more scarce. The conversion of these lands involves the removal of natural vegetation and alteration of natural drainage patterns, which can increase erosion from irrigation and rainfall runoff.

Highway construction, management of forest lands and federal grazing lands are also courses of accelerated erosion; however, these are dealt with in other 208 issues.

Sediment from erosion can have both short and long-term effects on water quality/beneficial uses. The immediate effect is increased turbidity in adjacent water ways, resulting in adverse impacts on fish and wildlife habitat, reduced water pump life due to abrasion, increased municipal/industrial water treatment costs for turbidity removal, and impaired recreation and aesthetic value. Some of the long-term effects are reduced reservoirs capacity, increased flooding hazard from reduced channel capacities, increased irrigation system maintenance and increased dredging costs. Sediment is also a carrier of other pollutants such as pesticides, heavy metals, and nutrients.

<u>∹ct</u>ion P'an

The State and Regional Boards contracted with several agencies to collect existing data and make recommendations for developing a statewide policy and a regional action plan for the control of erosion/sedimentation. These studies have been completed and used as supportive studies (Attachment 1) for this Regional Board action plan.

Objective are:

Beneficial uses of receiving waters that are presently significantly impacted by sediment should be restored to a water quality level consistent with state and federal water quality standards.

As adopted in Resolution, No. 79-180

- Beneficial uses of receiving waters presently unimpaired but threatened by impacts of sediment should be protected.
- Sediment control standards and program performance evaluation criteria should be based upon Best Management Practices and understanding of the impacts of sediment on beneficial uses.
- 4. Local units of government should have the lead role, with the Regional Board involving and assisting them, in the assessment of sediment problems, the determination of problem areas, and the estimate of sediment control priorities within their jurisdiction.
- 5. Land use activities that produce significant sediment impacts upon beneficial uses should be addressed by local voluntary programs that provide for inclusion of Best Management Practices applied in the context of management class acceptable to the affected land users..
- o. Minimum county-wide erosion control and surface runoff management criteria should be enacted to address impacts of sediment produced by construction activities.
- 7. Regional Soard participation in sediment control programs shall include assistance in the establishment of local control programs, participation in the determination of water quality problem areas and a cooperative program evaluation with local units of government. Upon failure of local programs to address impacts, waste discharge permits shall be issued for sediment control purposes.
- o. In critical water quality problem areas, counties and cities in the dentral Valley should submit action plans to the Regional Board within a reasonable time frame that sets forth local sediment control programs consistent with basin plan objectives and criteria. The control features of such action plans shall be incorporated into subsequent water quality management plans.

obidelines for Existing Prosion/Segimentation Probelms

- The resource management subsystem approach developed by the USBA-Soil Conservation Service and reported in their "Recommended Plan for Best Management Practices" shall be considered as Best Management Practices to control or reduce erosion/segimentation.
- 2. The Regional Board recognizes the sediment problem area maps developed by the USDA-Soil Conservation Service as the most comprehensive regional assessment of erosion problems for private lands presently available. These maps will be refined to assess significantly impacted water with the enlp of SCS/RCU, county, and interested agencies.

- 3. Regional Board will cooperate with counties to establish county erosion control committees, composed of interest groups including those representing the public interest, and local, state, and federal agencies with resource management skills. Committee duties are:
 - a. Provide local input and assistance to develop a control plan for the problem area.
 - b. Define with the Regional Board, seasonal water quality and soil loss standards for their area.
 - Seek technical assistance from agencies in planning, review, and implementation of Best Management Practices.
 - а. Seek funding for implementation of Best Management Practices.
 - e. Provide leadership in working with land users in the problem area.
 - Encourage development and/or implementation of local erosion/sedimentation control orginance.

<u>Guidelines for Potential Erosion/Segiment Problems</u>

A. Agriculture

Potential problems stem from conversion of one type of agricultural land use to another (i.e., range to cultivated agriculture) which result in soil disturbing activities and removal of vegetative cover.

- Local units of government should identify areas where such conversions are likely to occur and erosion/sedimentation will have adverse impacts on water quality.
- The county erosion control committees should work with the county to develop a control plan for identified areas.
- Local BSUA-Soil Conservation Service/RCD and UC Cooperative Extension
 offices should establish education and information programs to assist
 agricultural land users in planning and applying Best Management Practices
 to mitigate erosion during and after conversion.

B. Construction

 Plans for erosion/sedimentation control should be a requirement for issuance of a county or city grading and/or building permit for construction activities that will disturb greater than 10,000 square feet of surface area and/or more than 100 cubic yards of excavated material.

- Plans for erosion/sedimentation control should meet the following minimum criteria:
 - a. During development and/or construction, adequate measures to protect against erosion/sedimentation shall be provided.
 - b. Land shall be developed in increments of workable size that can be completed during a single construction season. Erosion and sediment control measures shall be coordinated with the sequence of grading, development and construction operations.
 - c. Vegetation shall be removed only when absolutely necessary.
 - d. Every effort shall be made to conserve top soil for reuse in revegetation of disturbed areas.
 - e. All disturbed soil surfaces shall be stabilized and revegetated before the rainy season.

In addition, plans should address the need for the following criteria:

- Sediment basins and traps shall be installed in conjunction with the initial grading operation.
- b. The drainage and storm water runoff control system and its component facilities shall be designed to fit the hydrology of the area under full development and have adequate capacity to transport the flow from all upstream areas.
- c. The drainage and storm water runoff control system and its component facilities shall be nonerosive in design, shall conduct runoff to a stable outlet, and be installed prior to the rainy season.
- 3. Those counties and cities that have adopted and are implementing ordinances and programs compatible with these guidelines shall transmit tentative maps for land developments containing 100 lots or more with sufficient information that the proposed development will meet these guidelines or the approved county/city erosion control ordinances.
- 4. Construction activities in counties and cities having no erosion control programs or one which is not in compliance with the Regional Board guidelines may be required to file a report of waste discharge.

Erosion/Sedimentation -5-

<u>Supportive Studies</u>

The following studies were performed to provide much of the technical and institutional information on which the recommendations of this plan are based:

- Recommended Plan of Best Management Practices, Soil Conservation Service, 1979.
- 2. 208 Institutional Study, John Muir Institute, 1979.
- Nevada County Sediment Control Plan, Nevada County RCD and Nevada County, 1979.
- Placer County Segiment Control Plan, Placer County RCD and Placer County, 1979.
- water Quality Study for Spanish Grant Drawnage District and Crow Greek watershed, G.E. Gustafson and Grestimoa RED, 1978.
- o. A Gully Control Demonstration Project, Cottonwood RCU, 1979.
- Erosion and Sediment Control Handbook, Department of Conservation Resources Agency, State of California, 1978.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL VALLEY REGION

RESOLUTION NO. 83-135

AMENDING THE WATER QUALITY CONTROL PLAN FOR GÜIDELINES FOR PROTECTION OF WATER QUALITY DURING CONSTRUCTION AND OPERATION OF SMALL HYDRO PROJECTS

WHEREAS, the California Regional Water Quality Control Board, Central Valley Region. (hereafter Board) adopted a Water Quality Control Plan on 25 July 1975; and

WHEREAS, high energy costs and attractive economic benefits have resulted in a recent boom in the development of small hydropower projects in Central Valley watersheas; and

MHEREAS, these projects can adversely affect water quality, aduatic and repartian habitat, and recreational/aesthetic uses of streams; and

WHEREAS, quidelines have been developed which set forth Regional Board policy on small hydro development, project standards for water quality protection, and procedures for project approval; and

WHEREAS, the Regional Board has conducted an environmental assessment tursuant to Title 14. California Administrative Code, and has determined that the proposed action will not have a significant effect on the environment: and

WHEREAS, the Regional Board, on 23 September 1983 in Sacramento and on 28 October 1983 in Redding, held public hearings and considered all evicence concerning this matter: Therefore be it

RESOLVED, That the Board hereby adopts the Guidelines for Profestion of Vater Quality During Construction and Operation of Small Hydro Projects as an exensise; to the Water Quality Control Plan; and be it further

RESOLVID. That the Executive Officer is instructed to transmit the Vater Quality Control Pian amendments to the State Water Resources Control Epard for its consideration and approval.

), WILLIAM H. CROOKS. Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of a Resolution adopted by the California Regional Water Quality Control Board, Central Valley Region, on 28 October 1983.

WILLIAM H. CROOKE, Executive Office

GUIDELINES FOR PROTECTION OF WATER QUALITY DURING CONSTRUCTION AND OPERATION OF SMALL HYDRO PROJECTS

POLICIES AND PRINCIPLES

All beneficial instream uses, including water quality, aquatic and riparian habitat, recreational and aesthetic uses, should be protected.

The Regional Board will be responsible for addressing water quality-related impacts of small hydro projects. Nonwater quality-related impacts will be addressed by other authorities; i.e., Department of Fish and Game; State Water Resources Control Board, Division of Water Rights; federal land management agencies; and local governments.

Construction and operation of small hydro projects small not result in a violation of adopted water quality objectives as contained in the Board's Water Quality Control Flam. The following objectives are considered of particular importance in profecting beneficial uses from adverse impacts of small hydro projects.

A. TEMPERATURE

Water temperature shall not be altered unless it can be demonstrated to the satisfaction of the Ragional Board that such alteration does not adversely affect beneficial uses. At no time shall temperature be increased by more than 5°f above background levels. Where temperature increases would threaten fisheries or other beneficial uses, the applicant may be required to establish baseline temperature conditions.

B. TURBIDITY

Waters shall be free of changes in turbidity that cause nuisance or adversely affect beneficial uses.

Increases in turbidity attributable to controllable water quality factors shall not exceed the following limits:

- Where natural turbidity is between 0 and 60 Jackson Turbidity Units (JTU), increases small not exceed 20%.
- Where natural turbidity is between 50 and 100 JTU, increases shall not exceed 10 JTU.
- Where natural turbidity is greater than 100 JTU, increases shall not exceed 10%.

The above turbidity limits will be eased during any working period when construction work must occur in flowing water, in allow a turbidity increase of 15 dlu as measured du0 feet below the discharge.

C. SEDIMENT

The suspended sediment load and concentration shall not be altered in such a manner as to cause nuisance or adversely affect beneficial uses. Where suspended or settleable sediment would threaten fisheries or other beneficial uses, the applicant may be required to establish baseline sediment conditions.

D. SETTLEABLE MATERIAL

· Waters shall not contain substances in concentrations that result in deposition of material that causes nuisance or adversely affects beneficial uses.

E. DISSOLVED OXYGEN

Dissolved oxygen shall not be depressed below levels specified in the Board's Water Quality Control Plan.

II. PROJECT STANDARDS AND REQUIREMENTS

A. CONSTRUCTION

The project applicant shall submit to the Regional Board an Erosion Control Plan specifying those measures which will be used to prevent erosion/sedimentation problems during project construction. The plan shall include a map of the project site delineating where erosion control measures will be applied. The erosion control plan shall include the following minimum criteria.

- Construction equipment shall not be operated in flowing water except as may be necessary to construct crossings or barriers.
- Where working areas are adjacent to or encroach on live streams, barriers shall be constructed which are adequate to prevent the discharge of turbid water in excess of those limits specified above.
- Material from construction work shall not be deposited where it could be eroded and carried to the stream by surface runoff or high stream flows.
- 4. All permanent roads shall be surfaced with material sufficient to maintain a stable road surface.
- All disturbed soil and fill slopes shall be stabilized in an appropriate manner.

GUIDELINES FOR PROTECTION OF WATER QUALITY DURING CONSTRUCTION AND OPERATION OF SMALL HYDRO PROJECTS

- Surface drainage facilities shall be designed to transport runoff in a nonerosive manner.
- 7. Riparian vegetation shall be removed only when absolutely necessary.
- 8. There shall be no discharge of petroleum products, cement washings or other construction materials.
- Erosion control measures shall be in place by October 15 of each year.
- 10. Stream diversion structures should be designed to preclude accumulation of sediment. If this is not feasible, the applicant must develop an operation plan that will prevent adverse downstream effects from sediment discharges.
- 11. The project shall be designed to avoid erosion and degradation of water quality in the event of a failure in the water transport system. An automatic, immediate shutoff mechanism is an acceptable method (in many cases, the only feasible method).

III. PROJECT REVIEW AND REGULATION

- A. Applicants should seek early consultation with the Regional Board to determine water quality concerns and to arrange a site inspection if needed.
- B. Where appropriate, the Regional Board will participate with the applicant and other reviewing agencies to determine the scope of the project's environmental assessment.
- C. The Regional Board will review the FERC application which should include the following water quality-related information:
 - 1. All environmental assessment information.
 - 2. A copy of the Erosion Control Plan.
 - A description of all project mitigations for water quality protection.
- The Regional Board will issue a letter addressing the need for Water Quality Certification and waste discharge requirements.

Waste Discharge Requirements

- The Regional Board believes the standard specifications contained in Section II of these guidelines will provide water quality protection from small hydro construction and operation. In most instances, the Regional Board will waive the need for Reports of Waste Discharge and waste discharge requirements for projects which comply with these standard specifications.
- Waste discharge requirements may be required for projects having high potential for water quality impairment or for major projects where construction work will be continued beyond one year.

Water Quality Certification

- Regulations under Section 401 of the Clean Water Act require applicants for federal licenses or permits (such as FERC licenses or U.S. Corps Oredge and Fill Permits) to obtain state certification of conformance with water quality standards.
- In most instances, the Regional Board will waive water quality certification provided the project includes the standards specified in Section II of these guidelines and it is determined that project operation will not violate adopted water quality objectives.

IV. ENFORCEMENT

When investigations by staff reveal that a project is impairing, or threatens to impair, beneficial uses of water, the project owner/operator is required to take corrective action as follows:

- A. The responsible party shall be promptly notified and asked to submit a description of actions and a time schedule to be taken to bring the project into compliance with these guidelines.
- B. A Cleanup and Abatement Order may be issued where the discharge of waste to surface waters is imminent and normal administrative procedures will not afford timely water quality protection. Upon failure to comply with such Cleanup and Abatement Order, the matter shall be referred to the Attorney General for appropriate action.
- C. The Regional Board may expend available monies to perform any cleanup and abatement work which, in its judgment, is required to prevent substantial adverse impacts on water quality and beneficial uses. The discharger shall be liable for all costs incurred in taking the cleanup and abatement action.

Guidelines for waste biscosal from Land Developments

in its June 1971 Interim Water Quality Control Plan the Board included Guidelines for Land Development Planning. These Guidelines were substantially modified on 15 December 1972 and retitled Guidelines for Waste Disposal From Land Developments. The Guidelines that follow are substantially the same as those adopted in 1972 but contain changes based upon experience gained from working closely with local governmental agencies in the development of individual waste disposal ordinances.

Section 13260 of the Porter-Cologne Water Quality Control Act requires any person discharging waste or proposing to discharge waste to file a report of the discharge containing such information as may be required by the Board. In the early 1950's, the Board waived the filing of reports for discharges from individual sewage disposal systems in those counties having satisfactory ordinances or regulations. Traditionally, these individual discharges have been treated by septic tank - leaching systems.

The water Quality Jorthol Act requires local governmental agencies to notify the spand of the filing of tentative subgrivision maps or applications for building permits involving six or more family units except where the waste is discharged to a community sewer system.

The Board believes that control of individual waste treatment and disposal systems can best be accomplished by local county environmental health departments if these departments are structly enforcing an ordinance that is designed to provide complete protection to ground and surface waters and to the public health.

The collowing principles and policies will be applied by the board in review of water quality factors related to land developments and waste disposal from septicitank-leadning systems:

- There are great differences in the geology, hydrology, geography, and meteorology of the 40 counties which lie partially or wholly within the Central Valley. The criteria contained herein are considered to be applicable to the Central Valley and pertain to: (a) all tentative maps filed after 15 December 1972, (b) all divisions of land made after 15 December 1972, and (c) all final maps for which tentative maps were filed prior to 15 December 1971, local agencies and the Board may adopt and enforce more stringent regulations which recognize particular local conditions that may be limiting to wastewater treatment and disposal.
- The Board does not intend to preempt local authority and will support local authority to the fullest extent possible. Where local authority demonstrates the inability or unwillingness to adopt an ordinance compatible with these guidelines, the Board intends to withdraw its waiver concerning waste disposal from individual systems and will require each and every party proposing to discharge waste within that county to submit a report of waste discharge as required by Section 13260 of the Porter-Cologne water quality act.

- Evaluation of the opability of individual waste treatment systems to adhieve continuous safe disposal of wastes requires detailed local knowledge of the area tovolved. The experience and recommendations of local agencies will, therefore, be an important input to the information upon which the Board will base its decision.
- There are many areas within the Central Valley that are not conducive to individual waste treatment and disposal systems. In these areas, connection to an adequate community sewerage system is the most satisfactory method of disposing of sewage. The Board believes that individual disposal systems should not be used where community systems are available and that every effort should be made to secure public sewer extensions, particularly in unban sheas, where connection to a public sewer is not feasible and a number of resistences are to be served, due consideration should be given to construction of a community sewage treatment and disposal system.
- The installation of individual disposal systems, especially in large numbers, creates disprete disposal systems may be considered on an individual pasis. The life of such disposal systems may be quite limited. Failures, once they begin in an area, generally will occur on an areawide basis. Further, negular maintenance is important to successful operation of individual disposal systems. To assure continued protection of water quality, to prevent water collution and to avoid the creation of public health hazards and huisance conditions, a public entity* shall be formed with cowers and responsibilities defined herein for all subdivisions having 100 lots or more. Subdivisions with less than 100 lots which threaten to cause water quality on bublic realth problems will also be required to form a public entity.

<u>Criteria for Septic Tank - Leaching Systems</u>

The following criteria will be applied to assure continued preservation and enhancement of state waters for all present and anticipated beneficial uses, prevention of water pollution, health hazards, and huisance conditions. These

^{*} Public entity - A local agency, as defined in the State of California Government local Section 53090 et seq., which is empowered to plan, design, finance, construct, operate, maintain, and to abandon, if necessary, any sewerage system on the expansion of any sewerage system and sewage threatment facilities serving a land development. In addition, the entity shall be empowered to provide permits and to have supervision over the location, design, construction, operation, maintenance, and abandonment of individual sewage disposal systems within a land development, and shall be empowered to design, finance, construct, operate, and resintain any facilities necessary for the disposal of wastes sumped from inclinual sewage disposal systems and to conduct any monitoring on surveillance incomans required for water quality control curposes. Junless there is an existing subject entity performing these tasks.

criteria prescribe conditions for waste disposal from septic tank-leaching systems for single family residential units or the equivalent and do not preclude the establishment of more stringent criteria by local agencies or the Board. The Board may prohibit the discharge from septic tank-leaching systems which do not conform to these criteria. Systems which cannot meet the following criteria may be allowed in selected areas if they are individually designed. The criteria may not be applicable in all cases to commercial or industrial developments.

The septic tank, absorption systems, and disposal area requirements for other than single family residential units shall be based upon the current edition of the "Manual of Septic Tank Practice" or in accordance with methods approved by the Executive Officer. An adequate replacement area equivalent to at least the initial disposal area shall be required at the time of design of the initial installation and incompatible uses of the replacement area shall be prohibited.

Minimum Distances

The Board has determined the following minimum distances (in feet) should be followed in order to provide protection to water quality and/or public health:

<u>Facility</u>	Domestic Well	Public <u>Well</u>	Flowing Stream(1)	Ephemeral	Cut or Fill Bank(3)	Property <u>Line</u> (4)	Lake or Reservoir(5)
Septic Tank Sewer Lin		100	50	25	10	25	50
Leaching Field	100	100	100	50	4h	50	200
Seepage Pit	150	150	150	50	4h	75	200

⁽¹⁾ As measured from the line which defines the limit of a 10-year frequency flood.

⁽²⁾ As measured from the edge of the drainage course or stream.

⁽³⁾ Distance in feet equals four times the vertical height of the cut or fill bank. Distance is measured from the top edge of the bank.

⁽⁴⁾ This distance shall be maintained when individual wells are to be installed and the minimum distance between waste disposal and wells cannot be assured.

⁽⁵⁾ As measured from the high water line.

Minimum Criteria

- The percolation rate* in the disposal area shall not be slower than 60 minutes per inch, or not slower than 30 minutes per inch if seepage pits are proposed. The percolation rate shall not be faster than five minutes per inch unless it can be shown that a sufficient distance of soil is available to assure proper filtration.
- Soil depth below the bottom of a leaching trench shall not be less than five feet, nor less than 10 feet below bottom of a seepage pit.
- Depth to anticipated highest level of ground water below the bottom of a leaching trench shall not be less than five feet, nor less than 10 feet below bottom of seepage pit. Greater depths are required if soils do not provide adequate filtration.
- Ground slope in the diposal area shall not be greater than 30 percent.
- The minimum disposal area shall conform to the following:

Percolation Rate _(minutes/incn)	Minimum Usable Disposal Area (sq ft)
41-60	12,000
21-40	10,000
11-20	8,000
Less than 10	6,000

- Areas that are within the minimum distances which are necessary to provide protection to water quality and/or public health shall not be used for waste disposal. The following areas are also considered unsuitable for the location of disposal systems or replacement area:
 - Areas within any easement which is dedicated for surface or subsurface improvement.
 - Paved areas.
 - Areas not owned or controlled by property owners unless said area is dedicated for waste disposal purposes.
 - Areas occupied or to be occupied by structures.

^{*} Determined in accordance with procedures contained in current US Department of Health, Education, and Welfare "Manual of Septic Tank Practice" or a method approved by the Executive Officer.

implementation.

- The doard will review local ordinances for the control of individual waste disposal systems and will request local agencies to adopt criteria which are compatible with or more stringent than these guidelines.
- In those counties which have adopted an ordinance compatible with these guidelines, the Board will pursue the following course of action for discharges from individual septic tank-leaching systems.
 - Land developments consisting of less than 100 lots will be processed entirely by the county. Tentative maps for subdivisions involving six or more family units shall be transmitted to the Board along with sufficient information* to clearly determine that the proposed development will meet the appropriace county ordinance. The board on the appropriate local authority may require a public entity if potential water quality in public health problems are anticipated.
 - Tentative maps for land developments containing 100 lots or more small be transmitted to the Board. The map small be accompanied by a report of waste discharge and sufficient information to clearly demonstrate that the proposed development will meet these guidelines or the approved county promance. A public entity is required prior to any discharge of waste.
- The board with prohibit the discharge of wastes from land developments which threaten to cause water pollution, quality degradation, or the creation of health hazards or nuisance conditions. These guidelines will be used to evaluate potential water quality or health problems. In certain locations and under special circumstances the Board's Executive Officer may waive individual criteria or he may waive the formation of a public entity. Land developers are to be aware that a waiver by the Executive Officer is not binding on any location entity.

Examples of these special concumstances would be:

- Short time, interim use of individual septic tank-leaching systems may be acceptable in areas which do not meet these guidelines if sufficient, dependable funding of community collection, treatment, and disposal is demonstrated and a plan and time schedule for implementation is being followed.

The Board's staff has developed a document entitled "Information Geeds for Waste Disposal from Land Developments". This document discusses the necessary necorts, hads, etc., that must be submitted in order to evalute proposed land developments.

- A failure to meet the minimum criteria could be negated by other favorable conditions. for example, the installation of indivioual septic tank-leaching systems may be allowed in areas which cannot meet the minimum criteria in these guidelines if the disposal area is increased sufficiently to allow for special design systems* that have been shown to be effective in similar areas.
- Severe impact on water quality has resulted from improper storm grainage and erosion control. Land developers must provide plans for the control of such runoff from initial construction up to complete build-out of the development.
- The disposal of solid waste can have an impact on water quality and public health. Land developers must submit a plan which conforms to the regional or count, master plan and contains adequate provisions for solid waste disposal for complete build-out of the development.
- The disposal of septic tank slugge is an important part of any areawide master plan for waste disposal. Land developers must submit a plan which con- forms to the regional or county master plan and contains adequate provisions for septic tank sludge disposal for complete build-out of the development.
- The responsibility for the timely submittal of information necessary for the doard on the appropriate local authority to determine compliance with these guidestnes nests with persons submitting proposals for development or discharge. For those developments which are to be submitted to the board, the Porter-Cologne Water Quality Control Act provides that no person shall initiate any new discharges of wastes prior to filing a report of waste discharge and prior to (1) issuance of waste discharge requirements, (2) the expiration of 120 days after submittal of an adequate report of waste discharge, or (3) the issuance of a waiver by the Regional Board.
- A report of waste discharge which does not provide the information required by these guidelines is an inadequate report. The 120-day time period does not begin until an adequate report has been submitted. Thus, to avoid extensive delay, every effort should be made to comply with these guidelines at the earliest possible date during formulation of proposals.

^{*} Special design systems will be accepted for review from registered engineers, geologists, or sanitarians who are knowledgeable and experienced in the field of septic tank-leaching system design and installation. These systems will include at least a 100 percent replacement disposal area. These systems shall be installed under the supervision of the designer, the public entity responsible, and the local health department.

Amendment to Water Quality Control Plan and Action Plan for Mining*

<u>Problem Statement</u>

Although water quality problems from active mines are effectively controlled through traditional avenues of waste discharge requirements, permits, and enforcement, acid mine drainage and heavy metals from inactive mines have created sterile stream conditions in isolated locations throughout central and northern California. Most of those mines known to be causing water quality problems are in the Central Valley Region.

Action Plan and Development

In planning to correct water quality problems caused by past mining activity, the Board undertook several related studies, the summaries and general recommendations of which are given below.

Tables 1 and 2 show, respectively, an inventory and ranking of problem mines in the Central Valley Region. A report was prepared describing the method used to rank the mines.

A study of enforcement and funding options was also completed.

Technical feasibility studies were conducted or are underway. These site-specific studies at Walker Mine in Plumas County; Malakoff Diggins in Nevada County; and Leviathan Mine in Alpine County will be used to promote cleanup at those sites and serve as examples of the application of BMPs for tunnel, open pit spoils, and sediment problems, respectively, with transfer value to other mines. The abatement project a Penn Mine, Calaveras County, begun as a 208 project, will also aid in identifying controls and techniques for other mines. A summary of acid mine drainage control technology has been prepared. Control methods (BMPs) that appear most promising for application in California are suggested in Figure 1. A Memorandum of Understanding among the State Water Resources Control Board, the US Bureau of Reclamation, and the Department of Fish and Game was prepared which outlines a program of correction for the Spring Creek watershed, Iron Mountain Mine, Shasta County.

The Board will take the following approach in applying the results of the studies described above:

- 1. The Board finds there are serious water quality problems related to inactive mines and will take necessary actions to control those problems using the priorities shown in Table 2 as a guide.
- In implementing necessary controls, the Board will take appropriate actions identified in the legal, institutional, and funding studies conducted during the 208 planning program.

As adopted in Resolution No. 79-149

- 3. As an important initial step in implementation and enforcement, feasibility studies should be developed for all high priority problem mines. Owners and operators will be required to prepared such plans, or in some cases, as appropriate, the Board will seek funds from the identified sources to conduct the studies. BMPs shown in Figure 1 should be considered in developing those plans.
- 4. The State Board and EPA should assist the Region in pursuing promising funding sources and other appropriate measures as recommended in the legal, institutional, and funding studies.
- 5. To prevent future problems, the Board will require owners and operators of active mines to prepare plans for closure and reclamation. Closure and reclamation plans for all operations will meet the minimum requirements of regulations in the Surface Miniph and Reclamation was of 1975 and will be coordinated with the State Spard of Mining and Geology.

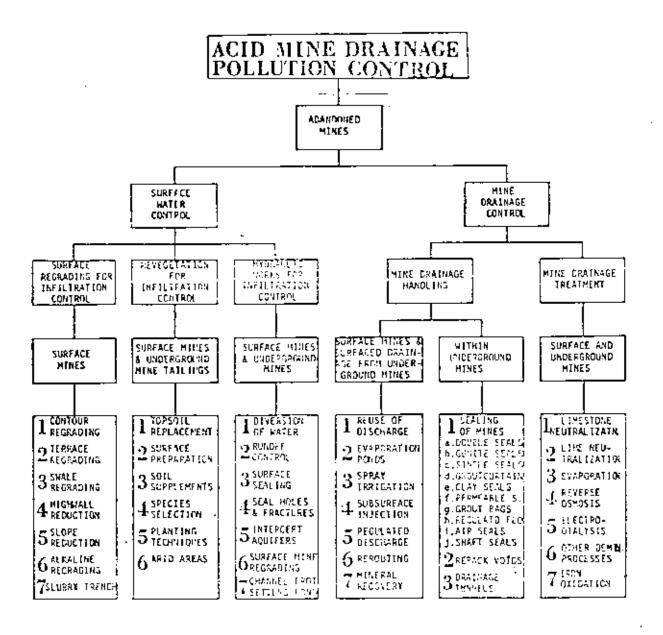
<u>Public Participation</u>

work plans and products were reviewed by a Mining Technical Advisory Group (MTAG) and individuals and groups on the Regional and State Board agendallists. A Penn Rine subcommittee toured the mine site and reviewed proposed abatement plans. One meeting with the MTAG was held to review the draft inventory and assessment report, discuss the legal study, and evaluate staff proposals for the site-specific reasonability studies.

Negative Declaration

A Negative peclaration was prepared for this project.

BEST MANAGEMENT PRACTICES AVAILABLE FOR CONTROL OF AND FROM ABANDONED MINES



adapted from unpublished literature review by the Sholtary Engineering Research Lab. U.C. Eerkeley

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The Federal Antidegradation Policy (40 CFR 131.12)

- (a) The State shall develop and adopt a statewide antidegradation policy and identify the methods for implementing such policy pursuant to this subpart. The antidegradation policy and implementation methods shall, at a minimum, be consistent with the following:
 - (1) Existing instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected.
 - Where the quality of the waters exceed levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water, that quality shall be maintained and protected unless the State finds, after full satisfaction of the intergovernmental coordination and public participation provisions of the State's continuing planning process, that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located. In allowing such degradation or lower water quality, the State shall assure water quality adequate to protect existing uses fully. Further, the State shall assure that there shall be achieved the highest statutory and regulatory requirements for all new and existing point sources and all cost-effective and reasonable best management practices for nonpoint source control.
 - (3) Where high quality waters constitute an outstanding National resource, such as waters of National and State parks and wildlife refuges and waters of exceptional recreational or ecological significance, that water quality shall be maintained and protected.
 - (4) In those cases where potential water quality impairment associated with a thermal discharge is involved, the antidegradation policy and implementing method shall be consistent with section 316 of the (Clean Water) Act.

Appendix 40 - Grassland Watershed Wetland Channels for Which Beneficial Uses Have Been Identified

Southern Grassland Wetland Channels	nd Channels	
	Starting Location	Ending Location
Agatha Canal North	Starts at the Agatha North/Geis split at NE1/4, SE1/4, SE1/4, Sec. 12, T11S, R11E	Discharges to the Santa Fe Canal at Mueller Weir at NW1/4, SW1/4, Sw1/4, Sec. 21, T10S, R11E
Agatha Canal South	Diversion from Helm or Main Canal at NW1/4, SE1/4, NE1/4, Sec. 31, T11S, R12E	Terminates at the Agatha North/Geir split at NE1/4, SE1/4, SE1/4, Sec. 12, T11S, R11E
Almaden Ditch	Begins at the Agatha Canal at Mallard Rd at SE1/4, NE1/4, SE1/4, Sec. 12, T11S, R11E	Terminates at Mesquite Drain siphon at the SW1/4, SW1/4, SW1/4, Sec. 11, T11E, R11E
Almond Drive Ranch	Diversions from the Main Canal and Main Drain at the SW1/4, SW1/4, SW1/4, Sec. 6, T11S, R10E	Discharges to Reedly Ditch at SW1/4, SW1/4, SW1/4, Sec. 5, T11S, R10E
Ascot Ditch	Diversion from the Main Canal at the SE1/4, SW1/4, SW1/4, Sec. 7, T11S, R11E	Terminates at the SW1/4, SE1/4, SE1/4, Sec. 8, T11S, R11E
Britto Ditch	Diversion from Camp 13 at the NW1/4, SE1/4, NE1/4, Sec. 22, T11S, R11E	Terminates at the SW1/4, SE1/4, NE1/4, Sec. 10, T11S, R11E
Camp 13	Diversion of the Main Canal or Main Drain or Hamburg Drain at the SW1/4, SE1/4, SE1/4, Sec. 27, T11S, R11E	Discharges to Mud Slough (south) at the SE1/4, NE1/4, NE1/4, Sec. 33, T10S, R11E
Charleston Drain	Freshwater diversions from the Outside Canal at the SW1/4, SW1/4, NE1/4, Sec. 32, T11S, R11E	Discharges to Upper Gadwall Ditch at the SW1/4, SW1/4, NW1/4, Sec. 6, T11S, R11E
Cocke Ditch	Diversion from the Arroyo Canal at the NE1/4, SW1/4, SW1/4, Sec. 21, T10S, R11E	Terminates at the NW1/4, SE1/4, Sec. 16, T10S, R11E
Colony Branch 2	Enters the Southern Grassland at the SW1/4, NW1/4, SW1/4, Sec. 8, T11S, R12E	Drains into Bennett Drain at the NE1/4, SE1/4, NE1/4, Sec. 7, T11S, R12E
Colony Branch 3/Bennett	Enters the Southern Grassland at the SE1/4, SW1/4, SW1/4, Sec. 5, T11S, R12E	Terminates at the Agatha Canal North at the SW1/4, SW1/4, SW1/4, Sec. 6, T11S, R12E
Cotton Drain	Enters the Grassland at the NW1/4, NE1/4, SE1/4, Sec. 32, T10S, R11E	Discharges to Mud Slough(s) at the SE1/4, SW1/4, SE1/4, Sec. 28, T10S, R11E

3 May 1996 (as adopted by the RWQCB)

Channels
 Wetland
Grassland
Northern

	Starting Location	Ending Location
Eagle Ditch	Diversion of the Santa Fe Canal at the NE1/4, SE1/4, NE1/4, Sec. 30, T.8S, R.10E	Discharges to Mud Slough (north) at the SW1/4, SE1/4, NE1/4, Sec. 7, T.8S, R.9E
Fremont Ditch	Diversion from San Luis Canal at the SE1/4, SW1/4, SW1/4, Sec. 35, T.8S, R.10E	Discharges to Mud Slough (north0 at the NW1/4, NW1/4, NE1/4, Sec. 20, T.8S, R.10
Garzas Creek	Enters Grassland Water District (GWD) at the intersection of Sections 22, 23, 26, 27, T.8S, R.9E	Discharges to Los Banos Creek NE1/4, NE1/4, NE1/4, Sec. 13, T.8S, R.9E
Gun Club Road Ditch	Diversion of Los Banos Cr at the intersection sof Sections 13, 14, 23, 24, T.8S, R.9E	Terminates at Eagle Ditch at the SW1/4, SE1/4, SE1/4, Sec. 13, T.8S, R.9E
Kesterson Ditch	Diversion of the Santa Fe Canal at the SE1/4, SE1/4, SW1/4, Sec. 32, T.8S, R.10E	Terminates at the NW1/4, NW1/4, SE1/4, Sec. 34, T.8S, R.10E
Los Banos Creek	Begins service at CCID Main Canal at the SE1/4, SW1/4, SW1/4, Sec. 9, T.10S, R.10E	Discharges to Mud Slough (north) at the NE1/4, NW1/4, SW1/4, Sec. 26, T.7S, R.9E
Mosquito Ditch	Diversion from the San Luis Wasteway at the NE1/4, NW1/4, NW1/4, Sec. 19, T.9S, R.10E	Discharges to Los Banos Creek at NE1/4, NE1/4, SE1/4, Sec. 6, T.9S, R10E
Rubino Ditch	Diversion of the San Luis Spillway at the SW1/4, SE1/4, SW1/4, Sec. 17, T.9S, R.10E	Terminates at the NW1/4, SW1/4, SW1/4, Sec. 8, T.9S, R.10E
San Luis Canal	Starts at a diversion of the Main Canal at NE1/4, NW1/4, SW1/4, Sec. 36, T.10S, R.10E	NE1/4, NE1/4, SW1/4, Sec. 5, T.8S, R.10E
San Luis Spillway Ditch	Diversion of the San Luis Wasteway at the intersection of Sections 17, 18, 19, 20, T.9S, R.10E	Discharges to the Santa Fe Canal at SE1/4, SE1/4, SW1/4, Sec. 16, T.9S, R.10E
San Luis Wasteway ¹		
Standard Ditch	Diversion from San Luis Canal at the NE1/4, SW1/4, NE1/4, Sec. 25 T.9S, R.10E	Terminates at the NE1/4, NE1/4, SW1/4, Sec. 15, T.9S, R.10E
Santa Fe Canal ²	Extension of the Arroyo Canal at Mueller Weir at the NW1/4, SW1/4, SW1/4, Sec. 21, T.10S, R.11E	Terminates at a tributary of Mud Slough (north) at the SW1/4, SW1/4, SE1/4, Sec. 7, T.8S, R.10E
Santa Fe Canal Extension	Diversion of the Santa Fe Canal at the SW1/4, Sec. 7, T.8S, R.10E	
Westside Ditch	Diversion of Garzas Cr at the intersection of Sections 22, 23, 26, 27, T.8S, R.9E	Discharges to Los Banos Creek at the SE1/4, NW1/4, NW1/4, Sec. 11, T.8S, R.9E

3 May 1996 (as adopted by the RWQCB)

¹ Begins as an extension of the Arroyo Canal. Receives only SLCC operational spill water at this point.
² Source is the Delta-Mendota Canal.